# DTC-790

## **SERVICE MANUAL**

## US Model Canadian Model AEP Model



| Model Name Using Similar Mechanism | DTC-690  |
|------------------------------------|----------|
| Tape Transport Mechanism Type      | DATM-110 |

#### **SPECIFICATIONS**

| System | ì |
|--------|---|
|--------|---|

Tape Recording head

Recording time (when using DT-120)

Tape speed

Drum rotation

Track pitch Sampling frequency

Number of channels D / A conversion (quantization)

Frequency response

Signal-to-noise ratio

Dynamic range

Wow and flutter

Total harmonic distortion Standard: 0.005% or less (1 kHz) Long-play: 0.008% or less (1 kHz)

Below measurable limit (±0.001%

W PFAK)

mode)

Digital audio tape Rotary head

Standard: 120 minutes

Long-play: 240 minutes Standard: 8.15 mm/s

Long-play: 4.075 mm/s Standard: 2,000 rpm

Long-play: 1,000 rpm

 $13.6\,\mu m$  ( $20.4\,\mu m$ ) 48 kHz, 44.1 kHz, 32 kHz

2 channels, stereo

Standard: 16-bit linear

Long-play: 12-bit non-linear Standard: 2-22,000 Hz (±0.5 dB)

Long-play: 2-14,500 Hz (±0.5dB)

90 dB or more (Standard and long-play

90 dB or more (Standard and long-play

#### Input Connectors

| Connector          | Jack type            | Input impedance | Rated input level |
|--------------------|----------------------|-----------------|-------------------|
| ANALOG<br>(LINE)   | Phono jacks          | 47 kilohms      | -4 dBs            |
| DIGITAL<br>OPTICAL | Optical<br>connector | magn.           | _                 |
| DIGITAL<br>COAXIAL | Phono jack           | 75 ohms         | 0.5 Vp-p          |

| Connector          | Jack type                    | Output<br>impedance | Rated<br>output<br>level | Load<br>impedance     |
|--------------------|------------------------------|---------------------|--------------------------|-----------------------|
| ANALOG<br>(LINE)   | Phono<br>jacks               | 470 ohms            | –4 dBs                   | 10 kilohms<br>or more |
| DIGITAL<br>OPTICAL | Optical connector            |                     | (waveleng<br>660nm)      | th —                  |
| HEADPHONES         | Stereo<br>phone-plug<br>jack | 100 ohms            | 1.2 mW                   | 32 ohms               |

- Continued on next page -





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|---|--|-------------------|-----------------------------------|--------------|--|--|
| General section  Power requirements                               |  | Section           | <u>Title</u>                      | <u>Page</u>  |  |  |
| Where purchased   | Power requirements   | SECTIO            | N 1. GENERAL                      | 4            |  |  |
| US, Canadian model  | 120 V AC, 60 Hz  | SECTIO            | N 2. DISASSEMBLY                  |              |  |  |
| AEP, German model   | 220 - 240 V AC, 50/60 Hz   |                   | se                                | 5            |  |  |
|   |  | 2-2. Ca           | ssette Window                     | 5            |  |  |
| Power consumption   | 30 W   |                   | chanism Deck                      |              |  |  |
| Dimensions  | Approx $430 \times 122 \times 325$ mm (w/h/d)<br>( $17 \times 4^{7}/8 \times 12^{7}/8$ inches) | 2-4. Ho           | der                               | 5            |  |  |
| Weight  | Approx 5.0 kg (11 lb 0.4 oz)   |                   | ssette Compartment Motor (M901),  |              |  |  |
|   | ,  |                   | ving Gear and Slider              |              |  |  |
| Remote commande   | r RM-D9 (supplied)   |                   | m Driving Board and Driving Chase |              |  |  |
| Dimensions  | Approx $45 \times 185 \times 20 \text{ mm (w/h/d)}$  |                   | m                                 |              |  |  |
|   | $(1^{13}/_{16} \times 7^3/_8 \times {}^{13}/_{16} \text{ inches})$                             | 2-8. Ca           | ostan Motor (M902)                | 7            |  |  |
| Weight  | Approx 100 g (3.5 oz) incl. batteries  | SECTIO            | N 3. ADJUSTMENTS                  |              |  |  |
| Supplied accessorie   | •  |                   | en Making Adjustments             | 0            |  |  |
| aubbuen accessorie  | •  |                   | ctrical Adjustments               |              |  |  |
|   |  | 0 1. 210          | our rajustinents                  | ·····        |  |  |
| Audio connecting  |  |                   | N 4. DIAGRAMS                     |              |  |  |
|   | er (remote) RM-D9 (1)  | 4-1. Cire         | uit Boards Location               | 13           |  |  |
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| (-)   |  | 4-5. Prir         | ted Wiring Board — Display, MD S  | Section — 26 |  |  |
| Design and engelficati  | ons are subject to change without notice.  | 4-6. Sch          | ematic Diagram — Display, MD Se   | ection — 29  |  |  |
| = 10.61 und specificati   | ons are subject to change without notice.  |                   | Block Diagrams                    |              |  |  |
|   |  |                   | Pin Functions                     |              |  |  |
|   |  | • IC              | 304 CXD2605Q (DSP)                | 35           |  |  |
|   |  |                   | 310 CXP87532-015Q (Main, Mech     |              |  |  |
|   |  |                   | 801 CXP82316-054Q (Display Con    |              |  |  |
|   |  |                   | 802 MSM6338RS (Meter IC)          |              |  |  |
| lotes on chip c   | omponent replacement   | SECTIO            | N 5. EXPLODED VIEWS               |              |  |  |
|   | isconnected chip component.  |                   | e Section                         | 42           |  |  |
|   | minus side of a tantalum capacitor may be  |                   | nt Panel Section                  |              |  |  |
| damaged by hea  | * *  |                   | ssis Section                      |              |  |  |
| ummaged by field  |  |                   | hanism Deck Section-1             |              |  |  |
|   |  |                   | hanism Deck Section-2             |              |  |  |
|   |  |                   |                                   | 40           |  |  |

#### **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE **OPERATION. REPLACE THESE COMPONENTS WITH** SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

5-7. Mechanism Deck Section-4 (DATM-110) .......48

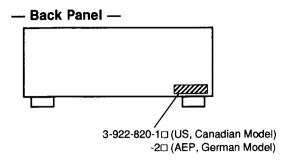
SECTION 6. ELECTRICAL PARTS LIST......49

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\Lambda$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## PRECAUTIONS FOR INSPECTIONS AND REPAIR WITH POWER OFF

Before beginning repair work after turning OFF the main switch, be sure to first remove CN901 (EH5P), 902 (EH6P) of the main board. When assembling the equipment, be sure to plug this connector last. Even with the main switch turned off, there still remain electrical charges in part of the power circuit. Therefore, plugging in or removing the connector could cause the power supply terminal to short with an adjacent terminal. This could cause possible component damage.

#### MODEL IDENTIFICATION



#### SAFETY CHECK-OUT

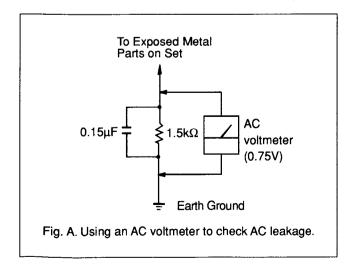
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

#### **LEAKAGE**

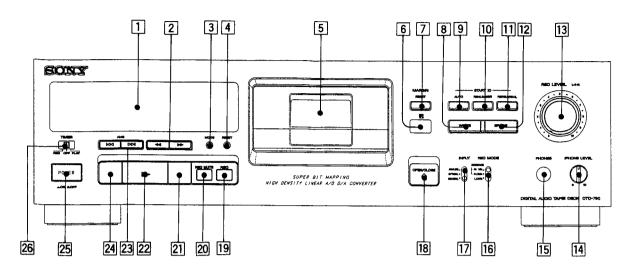
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

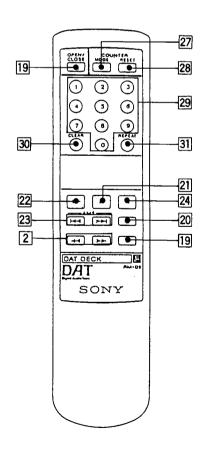
- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



## SECTION 1 GENERAL

#### **FRONT PANEL**





- 1 Display window
- 3 MODE (counter mode) button
- 4 RESET (counter reset) button
- 5 Cassette holder
- 6 Remote sensor
- MARGIN RESET button
- 8 WRITE button
- 9 START ID AUTO button
- 10 START ID RENUMBER button
- III START ID REHEARSAL button
- 12 ERASE button
- 13 REC (recording) LEVEL control
- 14 PHONE LEVEL control
- 15 PHONES jack
- 16 REC (recording) MODE switch
- 17 INPUT switch
- 18 OPEN/CLOSE button
- 19 REC (recording) button
- 20 REC (recording) MUTE O button
- 21 II (pause) button
- 22 > (play) button
- [23] [△⊲/⊳⊳] (AMS\*) buttons
- 24 (stop) button
- 25 POWER switch
- 26 TIMER switch
- 27 COUNTER MODE button
- 28 COUNTER RESET button
- 29 Numeric buttons
- 30 CLEAR button
- 31 REPEAT button
- \* AMS is the abbreviation of Auto Music Sensor.

## SECTION 2 DISASSEMBLY

• Remove the parts numbered in the figure (1), etc.) in numerical order.

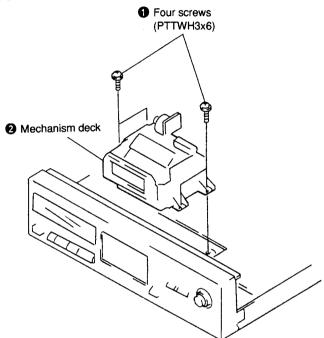
#### 2-1. CASE

Unscrew the four case attachment screws and remove the case

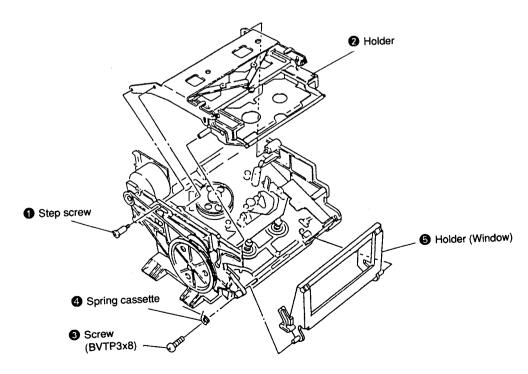
#### 2-2. CASSETTE WINDOW

- Press the OPEN/CLOSE switch to effect LOADING OUT STATE (if power is not supplied) rotate the pulley in the left side of the Mechanism Deck counterclockwise.)
- 2 Remove the cassette by lifting the window up.

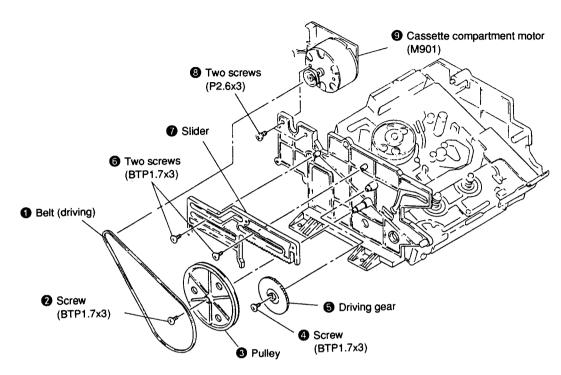
## 2-3. MECHANISM DECK



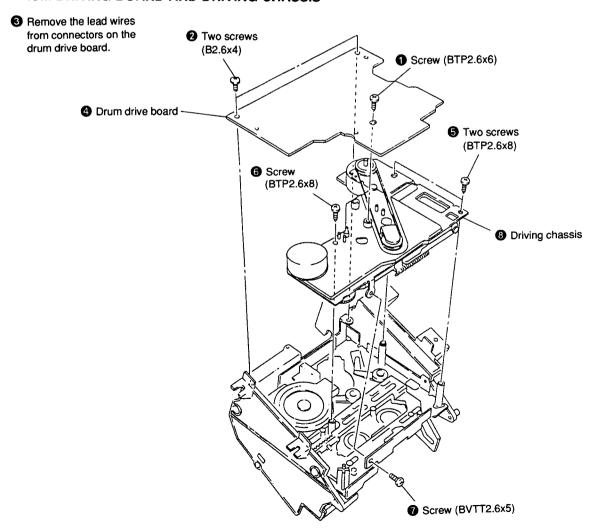
#### 2-4. HOLDER



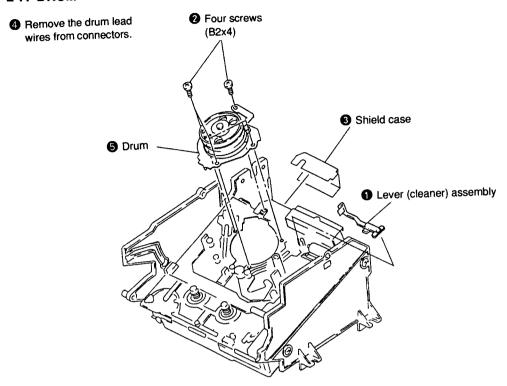
## 2-5. CASEETTE COMPARTMENT MOTOR (M901), PULLEY, DRIVING GEAR AND SLIDER



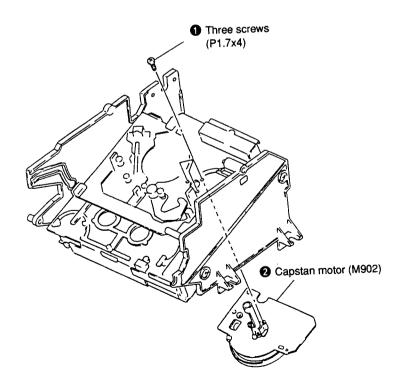
## 2-6. DRUM DRIVING BOARD AND DRIVING CHASSIS



## 2-7. DRUM



## 2-8. CAPSTAN MOTOR (M902)



### SECTION 3

#### **ADJUSTMENTS**

## Notes When Making Adjustments

1. Adjustments should be performed in the order listed.

2. Use the following test tapes:

| TY-7111X (8-909-823-00) | Level     |
|-------------------------|-----------|
| TY-7251 (8-909-813-00)  | Tracking  |
| TY-7551 (8-909-814-00)  | Functions |
| TY-30B (8-892-358-00)   | Blank     |
|                         |           |

Use the following torque meter:

TW-7131 (8-909-708-71) ..... FWD

3. Switches and controls should be set as follows unless otherwise specifed.

TIMER switch

: OFF

**REC MODE** switch INPUT switch

: LONG

: COAXIAL

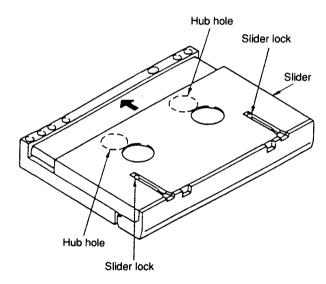
REC LEVEL control

: Min.

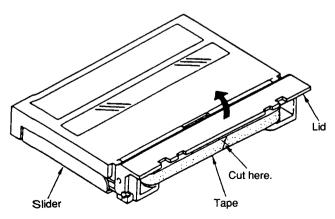
PHONES LEVEL control: Min.

4. Creating an end sensor cassette

(1) Press the tape slider lock and move the slider in the direction indicated by the arrow.



(2) Open the lid and cut the tape.

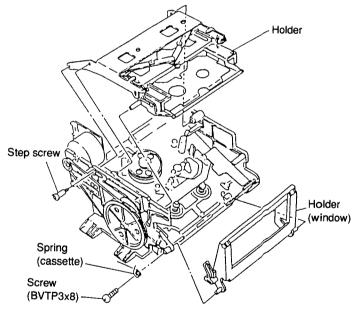


(3) Turn the hubs until the tape is completely inside the cassette (both T and S sides).

The end sensor cassette for end sensor adjustment is now ready for use.

5. Cleaning of the Revolving Drum

- (1) Fold a chamois (2-034-697-00) or a knit cloth into 4 or more files, slightly impregnate it with a cleaning liquid (9-919-573-00), and softly touch the drum with it and manually rotate the drum slowly counterclockwise by 2 to 3 turns for cleaning.
- (2) At that time, be careful not to move the chamois vertically to the head tip. Otherwise, the head tip may probably be damaged.
- 6. Be careful not to move RV1 and RV2 on the RF AMP board in the mechanism assembly.
- 7. To adjust the tape path and guides, remove the holder assembly as shown in the diagram and use the DAT holder jig (J-8000-002-A). This will make it easier to perform adjustments.
  - · First turning the pulley counterclockwise to put it in loading out status will make removal and reattachment of the holder assembly easier.
  - To perform adjustments, turn the pulley clockwise to put it in loading in status, load the cassette tape and set the IN switch to the ON position.



- 8. Test Mode
  - (1) Test mode (main)

To set the test mode, short-circuit TP (X TEST) and GND of the main board. (At this time, the dB display of the FL display level meter will blink.)

Perfom the following adjustments in the test mode.

- FWD torque adjustment
- FWD back tension check
- Tape path fine adjustments
- DPG adjustment
- AGC voltage check
- End sensor check

(2) Test mode (display)

Setting:

TIMER switch : Center click INPUT switch : Center click REC MODE switch : Center click

- Disconnect CN901 and CN902 of the main board after turning off the power supply.
- Short-circuit the testland (TEST) and GND of the display (A) board.
- To check the FL display, insert CN901 and CN902 and turn on the power.

Each grid of the FL display tube sequentially lights up while all tubes being lighted up finally.

Û

Level meters go out one after one.

Û

When all the level meter go off, the NEXT RMC will be displayed.

Û

When the PLAY(►) key of the DAT remote control is pressed, the display other than the level meter lights up and the NEXT KE 4 will be displayed next.

Û

Every time the panel switch is operated, one level meter light up.

Ú

When all switches have been operated, all the level meters go off and KEY OK will be displayed.

- To reset the test mode, disconnect the wire shorting TP (X TEST, TEST) and GND. After completion of adjusting, be sure to reset the test mode.
- Check the following items for correct tape speed, after completion of adjusting.
  - Set the REC MODE switch to 48k and check for normal recording and playback. (x1)
  - (2) Set the REC MODE switch to LONG and check for normal recording and playback. (x0.5)
  - (3) With QUE (►+►►) or REVIEW (►+◄◄), check that qurrr, qurrr sound is heard. (x3, x8)
  - (4) Check that correct time is displayed after FF (►►) or REV (◄◄). (x16)
  - (5) Check that AMS (▷▷ , ▷□) is normal.

#### 3-1. ELECTRICAL ADJUSTMENTS

#### **FWD Torque Adjustment**

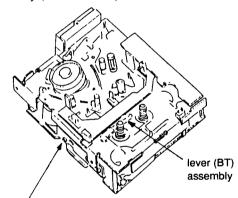
#### Procedure:

- 1. Set the test mode (main) and load the FWD torque meter TW-7131 (8-909-708-71).
- 2. Set the PLAY (►) mode. "TORQUE" will be displayed on the FL tube.
- Adjust RV451 so that the minimum value of FWD take up torque (take-up side rewinding torque) is between 9 10g cm (0.13 0.14 oz inch).
  - Also, make sure that the maximum reading does not exceed 15g cm (does not exceed 0.21 oz inch).
- 4. Confirm that the value indicated by the torque meter is maintained for one full cycle.

#### **FWD Back Tension Check**

#### Procedure:

- 1. Set the test mode (main), and attach the FWD torque meter TW-7131 (8-909-708-71).
- 2. Set the PLAY (►) mode. "TORQUE" will be displayed on the FL tube.
- 3. Check the minimum value of the back tension (S side) to be 4.5 to 7.5g cm (0.06 0.1 oz inch). And check that the difference between the minimum value and the maximum value is less than 5g cm. (0.07 oz inch)
- 4. If the specified values are not satisfied, replace the lever (BT) assembly (X-3363-024-1).



Note: Precision screw +P2x2.5

This screw is used in some units. Do not rotate it.

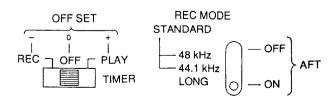
#### Tape Path Fine Adjustments (x1.5 FWD Mode)

Perform the following adjustment when the drum has been replaced.

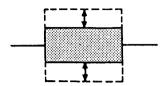
### Procedure :

- 1. Connect an oscilloscope CH-1 to TP (PBRF) and CH-2 to TP (SWP) on the main board.
- 2. Set the test mode (main) and load test tape TY-7251 (8-909-813-00).
- 3. Press the AMS (▷▷•]) key. "DPG" will be displayed on the FL tube.

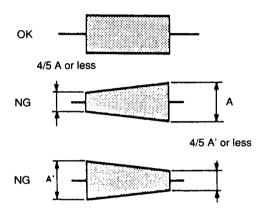
Each part of switches on Test Mode.



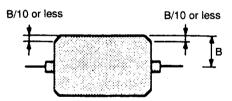
4. With the REC MODE switch set to 48k (ATF: OFF) and the TIMER switch set to PLAY or REC (OFFSET: + or -), fine adjust the S1 and T1 guides so that the oscilloscope RF signal waveform remains the same when high-low is repeated.



- \* Finish the adjustment by screwing in.
- Check the RF signal waevform with the REC MODE switch set to LONG (ATF: ON) and the TIMER switch set to PLAY or REC (OFFSET: + or -).



- Check the RF signal waveform with the REC MODE switch set to LONG (ATF: ON) and the TIMER switch set to OFF (OFFSET: 0).
  - (1) Confirm that the RF signal waveform peak value (B) is 60 mV or more.
  - (2) Confirm that the undershoot level of the RF signal waveform's flat portion is within 10%.



7. When the measured values are not within the above tolerance repeat items 3 - 6 above.

Adjustment Point: mechanism assembly

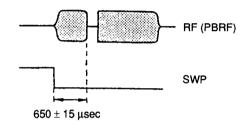
#### **DPG Adjustment**

Perform the following adjustment without fail when the drum has been replaced.

#### Procedure:

- Connect oscilloscope CH-1 to TP (PBRF) and CH-2 to TP (SWP) on the main board. (Use CH-2 as the trigger. When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)
- Set the test mode (main) and load test tape TY-7251 (8-909-822-00).
- 3. Set the REC MODE switch to 48k (ATF: ON) and the TIMER switch to OFF (OFFSET: 0).
- Press the AMS (▷▷□) key. "DPG" will be displayed on the FL tube.

(Hold the ◀◀ and ▶▶ keys down for more than 1 second to perform rough adjustment. Hold them down for approximately 0.2 seconds for fine adjustment, and the auto adjustment can be performed pressing ▷ key.

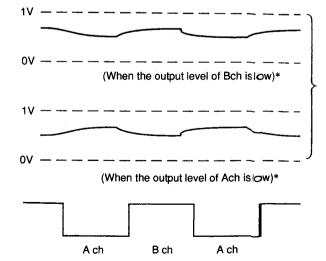


#### **AGC Voltage Check**

Perform this adjustment after cleaning the heads with a cleaning cassette.

#### Procedure:

- 1. Connect oscilloscope CH-1 to TP (GCA: Gain Control Amp.) and CH-2 to TP (SWP) on the main board. (When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)
- Set the test mode (main) and load test tape TY-7111X (8-909-823-00).
- Set the PLAY (►) mode and check that the GCA waveform on the oscilloscope is as follows.



GCA

SWP

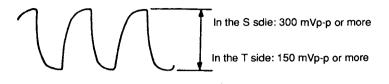
\* Slightly changes depending on the state of the he ad. NG if the GCA waveform is 1V or more or equal to the GND level

#### **End Sensor Check**

Perform the following adjustment when the holder has been removed or part of the mechanism deck section replaced.

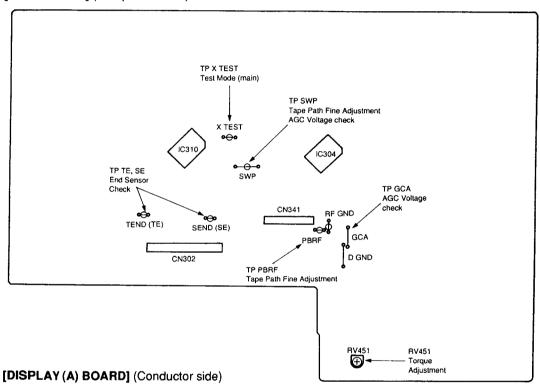
#### Procedure:

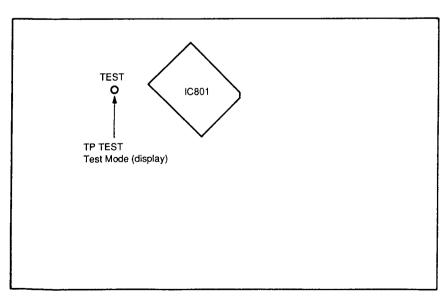
- Connect an oscilloscope to the test land SE (in the S side) and TE (in the T side) of the main board.
- 2. Set the test mode (main), mount an end sensor cassette and effect the STOP (■) mode.
- 3. Check that p-p values of waveform of the oscilloscope satisfy the following.



## Adjustment Location:

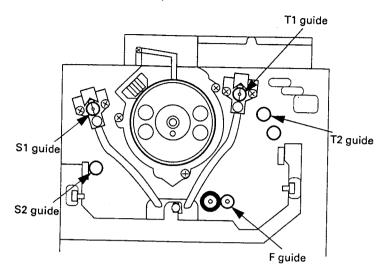
[MAIN BOARD] (Component side)





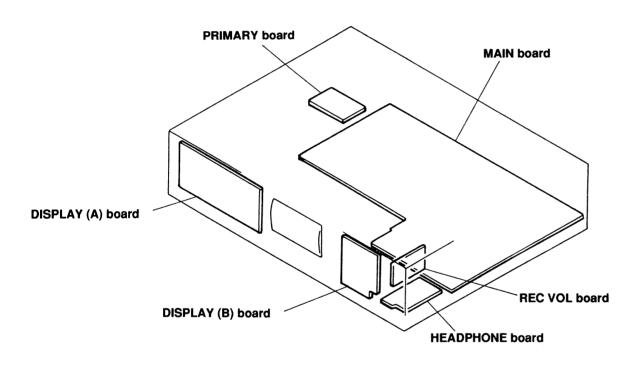
## Adjustment Location:

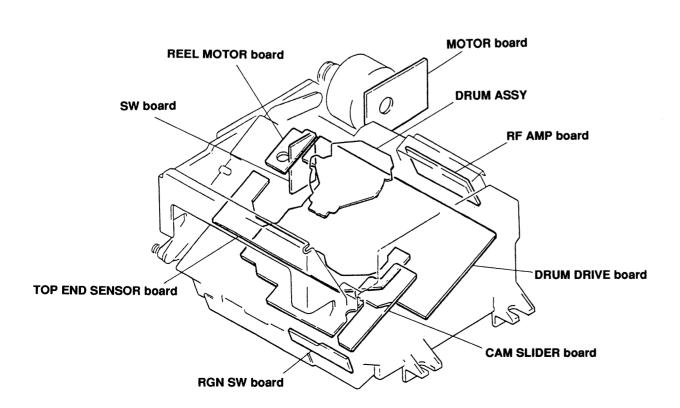
## — Mechanism assembly —



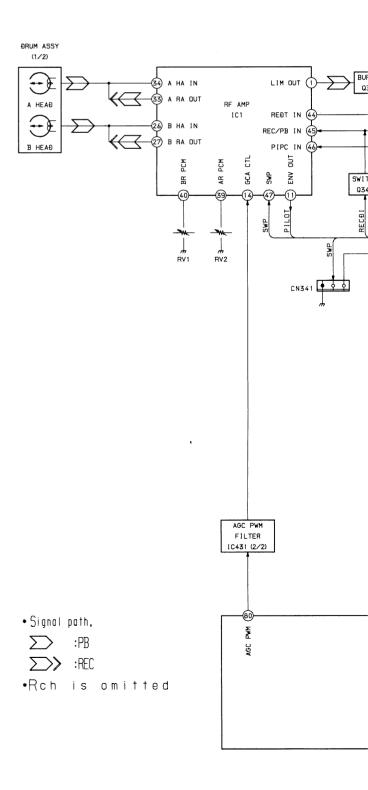
## SECTION 4 DIAGRAMS

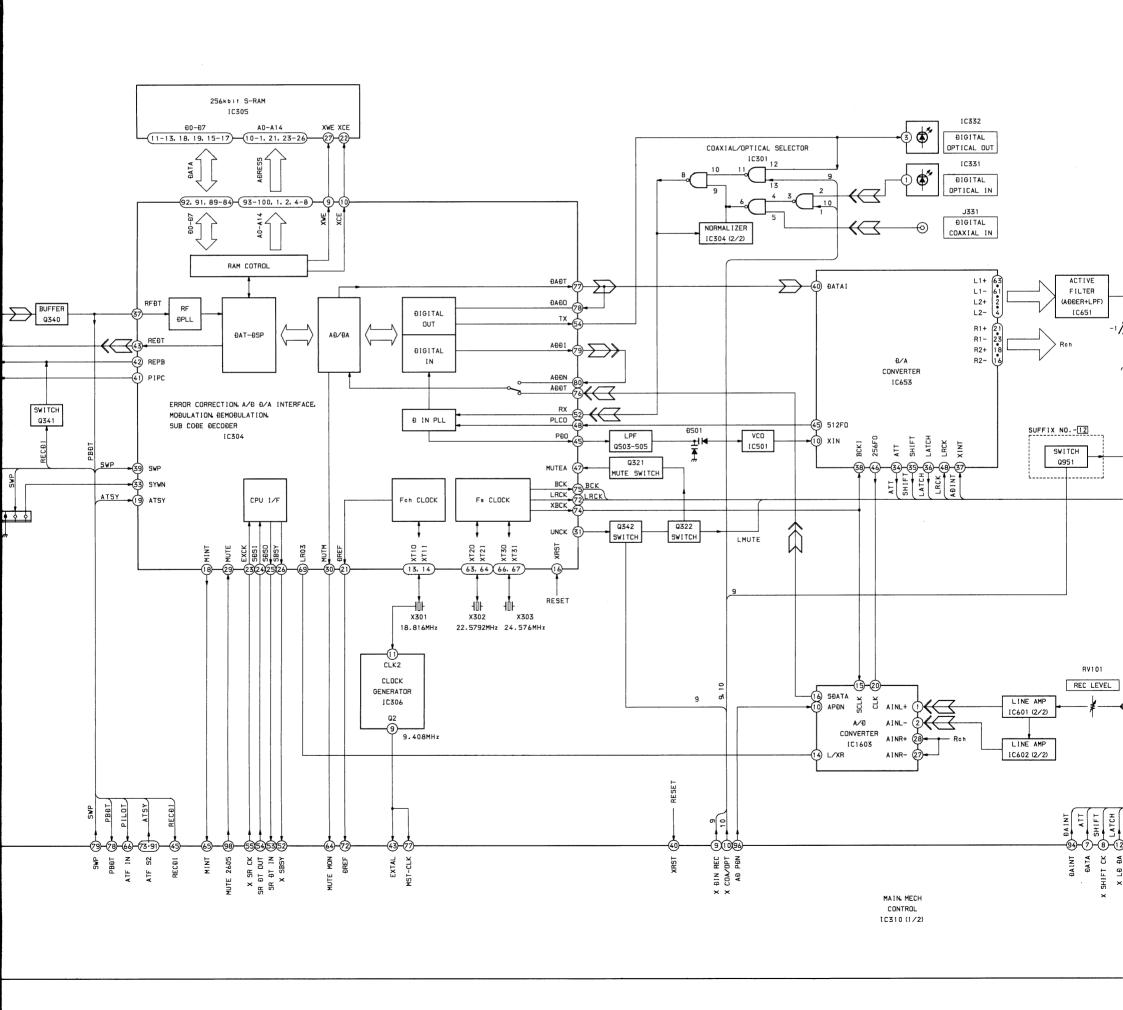
## 4-1. CIRCUIT BOARDS LOCATION

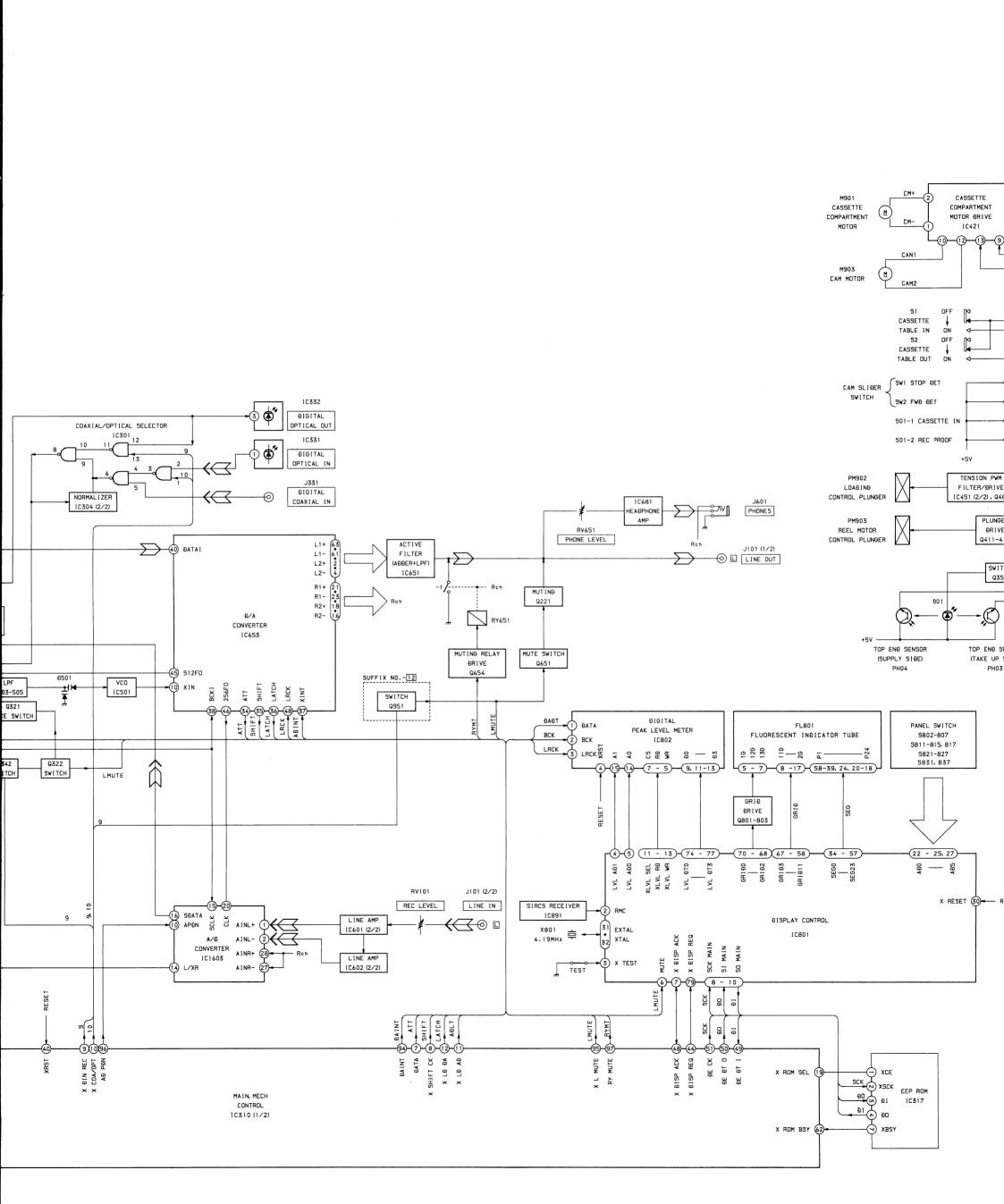


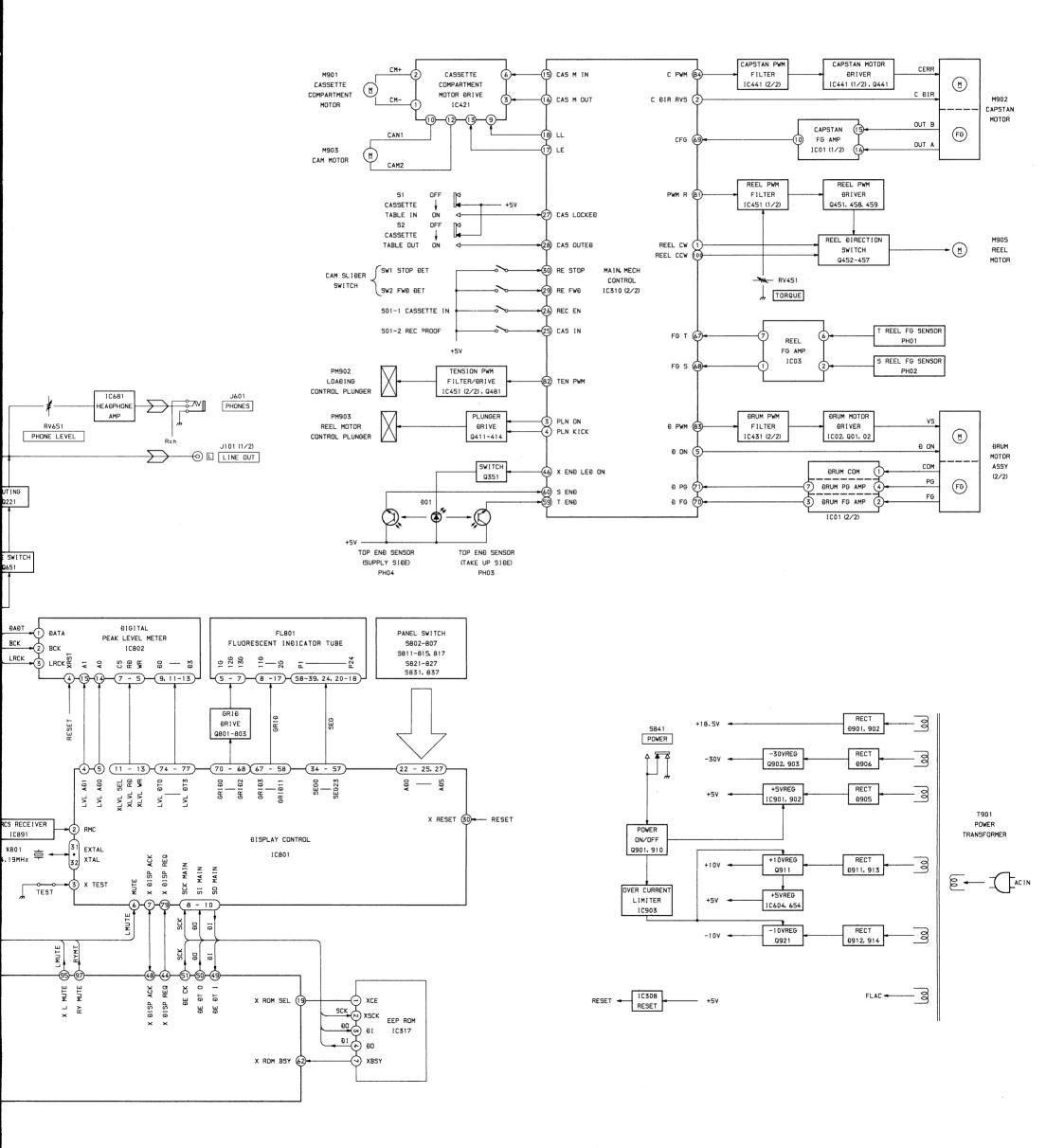


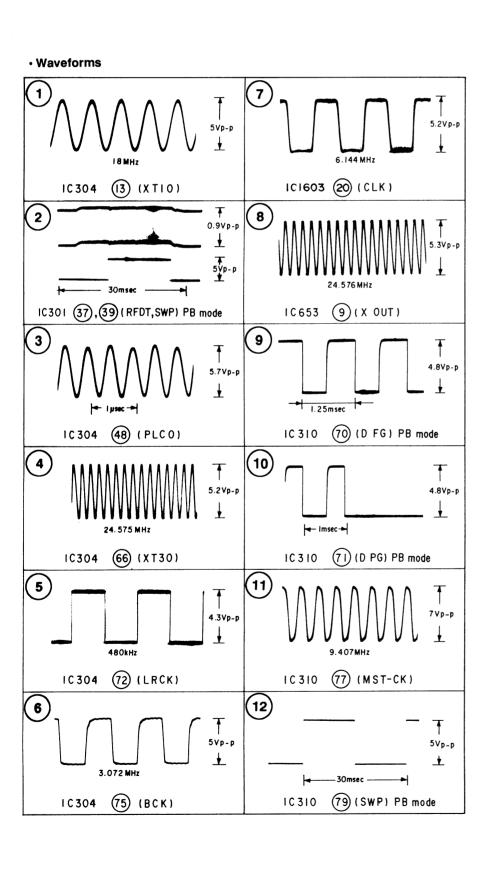
### 4-2. BLOCK DIAGRAM

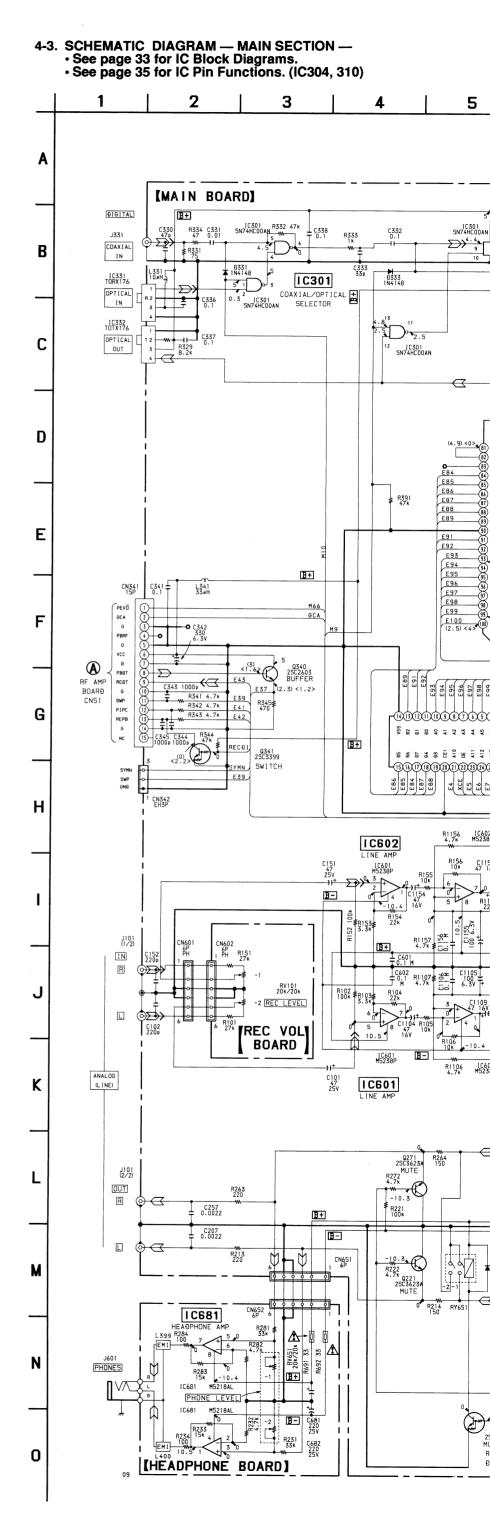


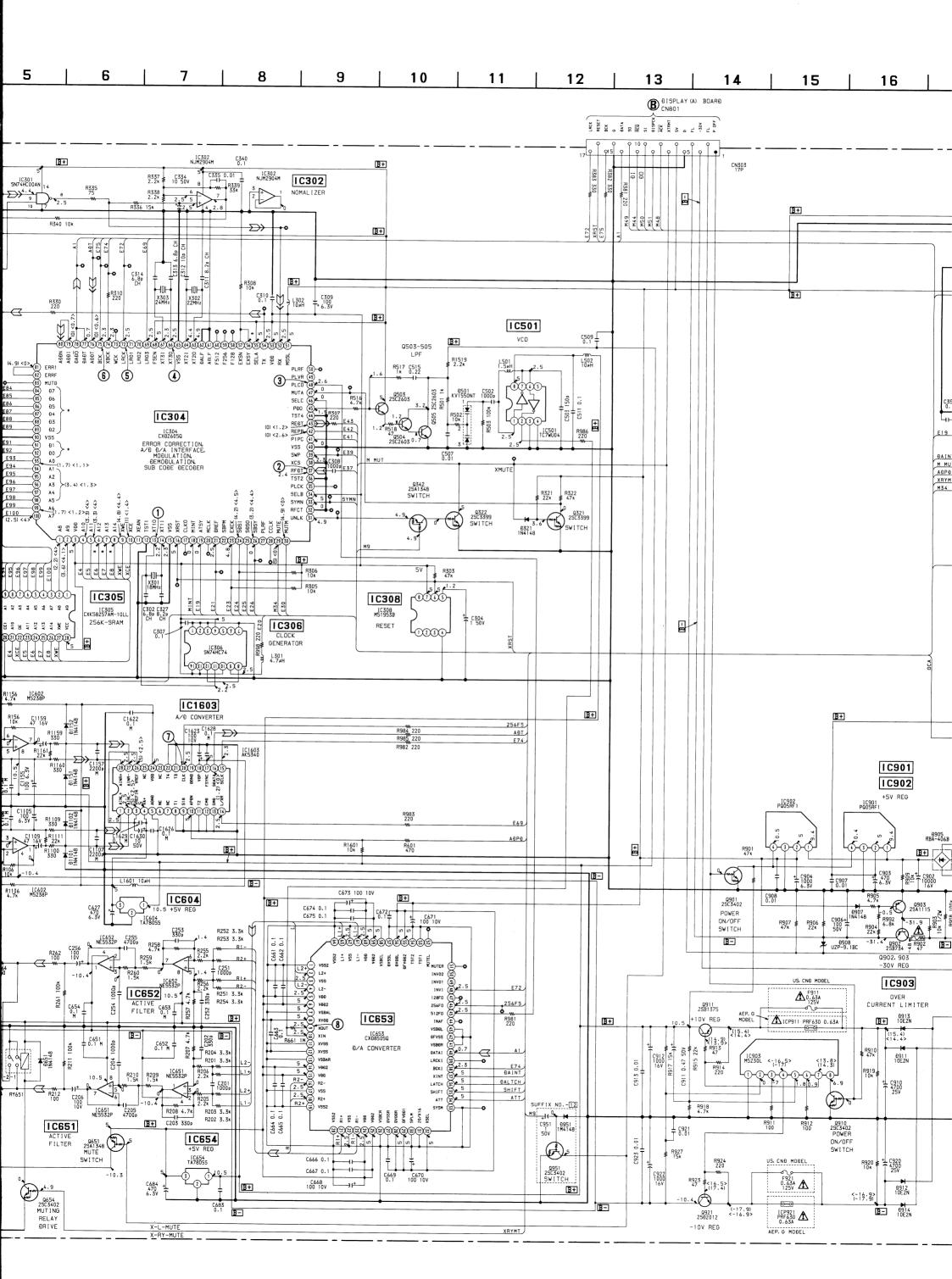


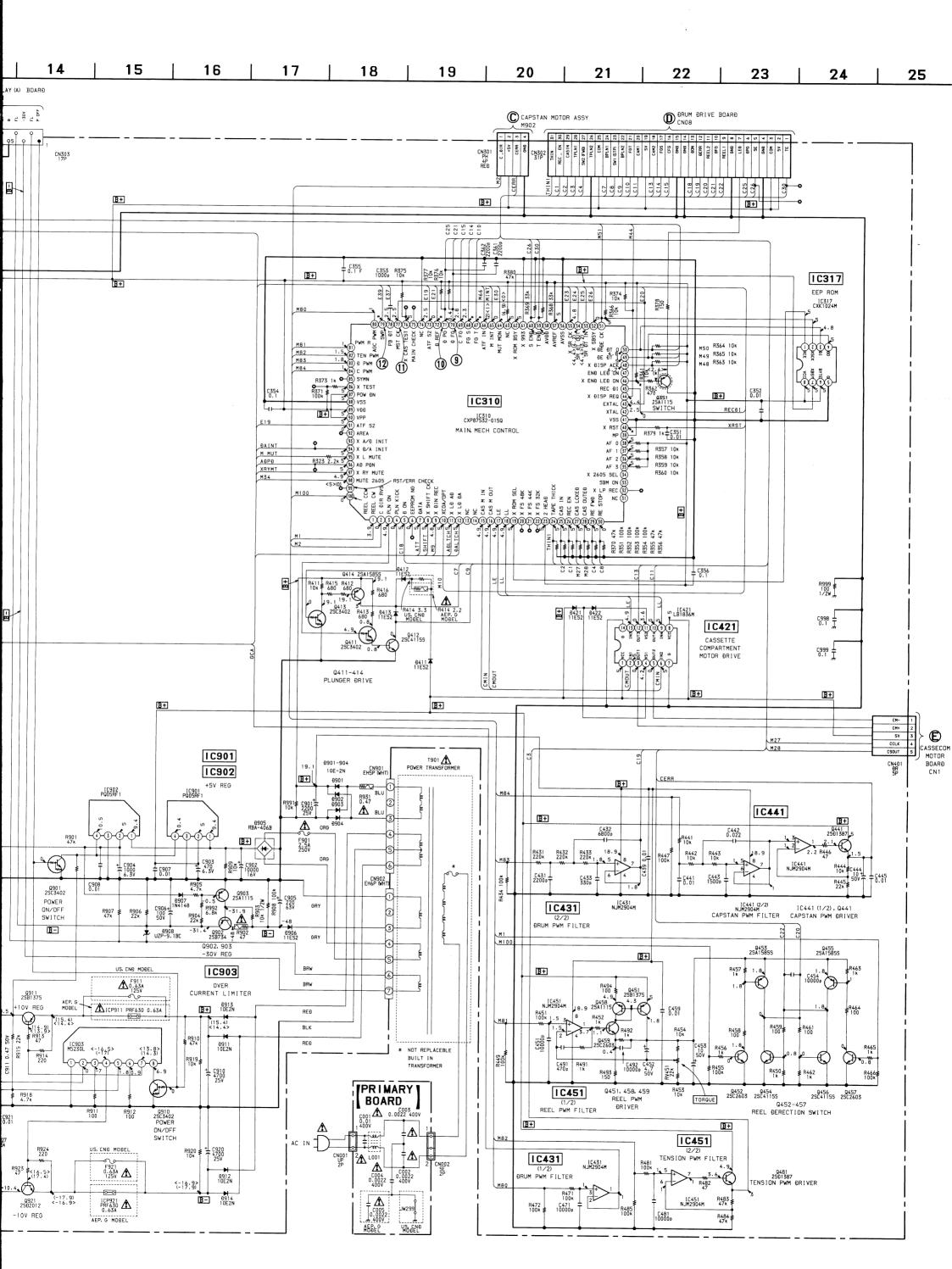


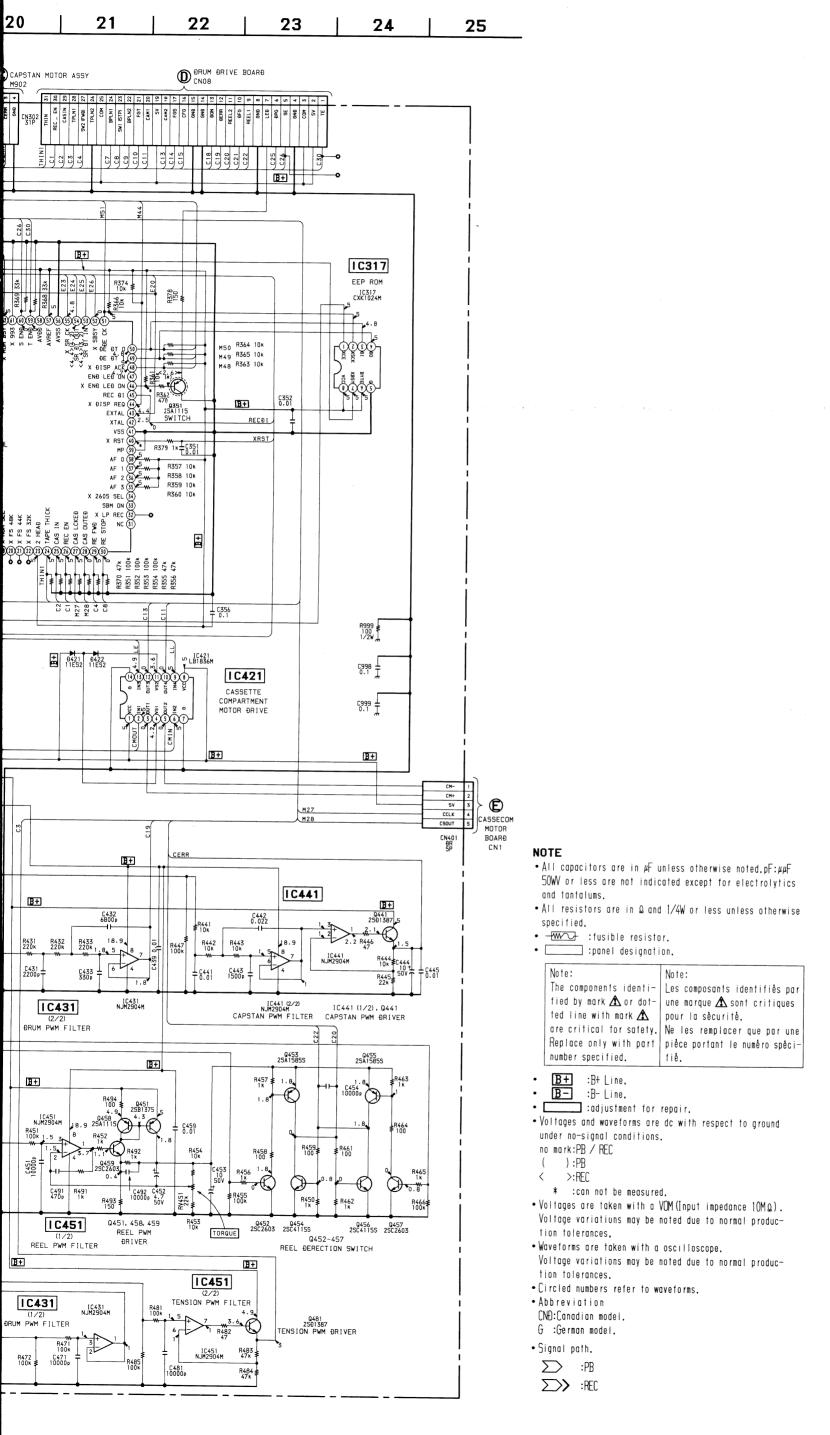




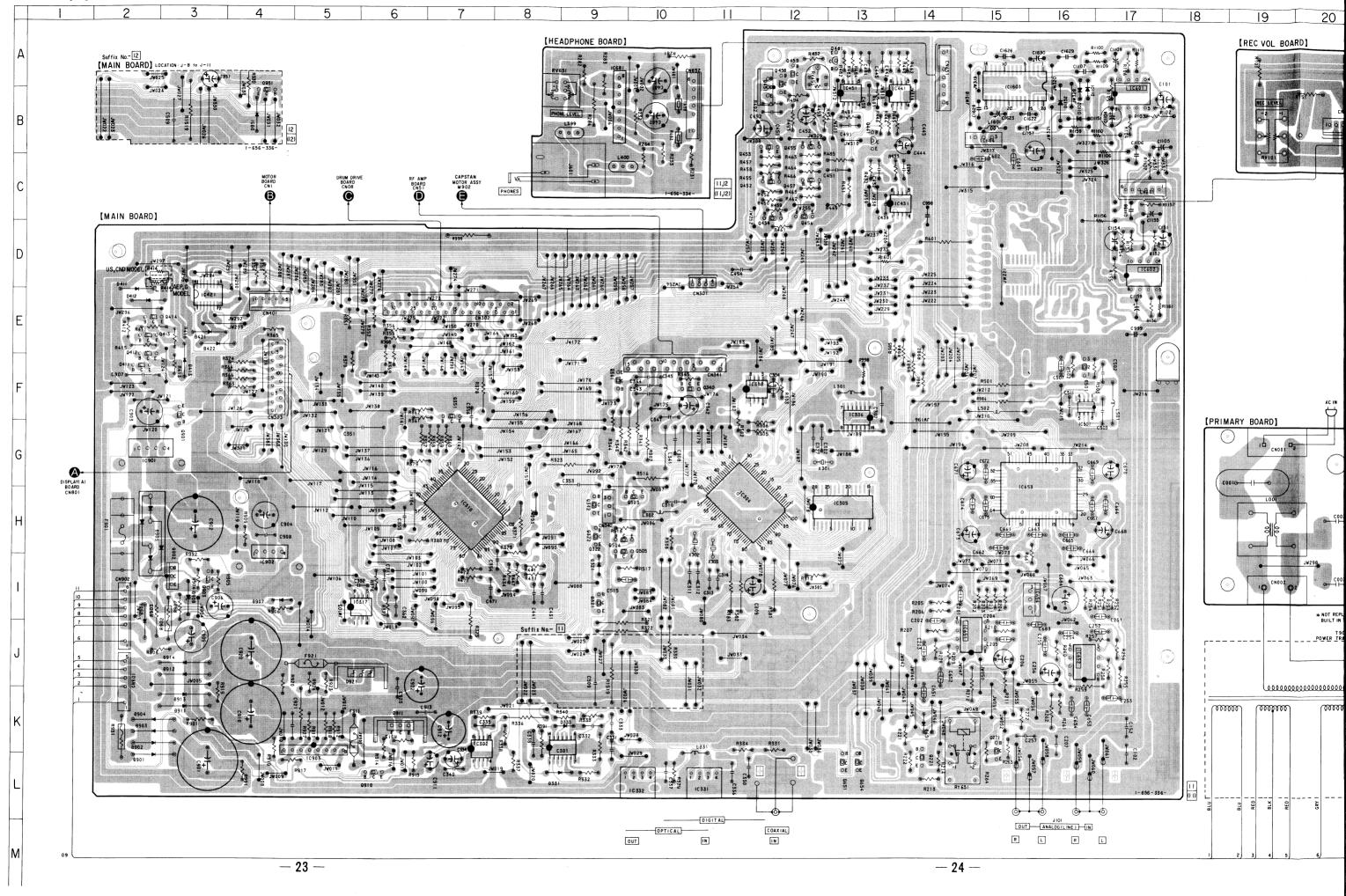


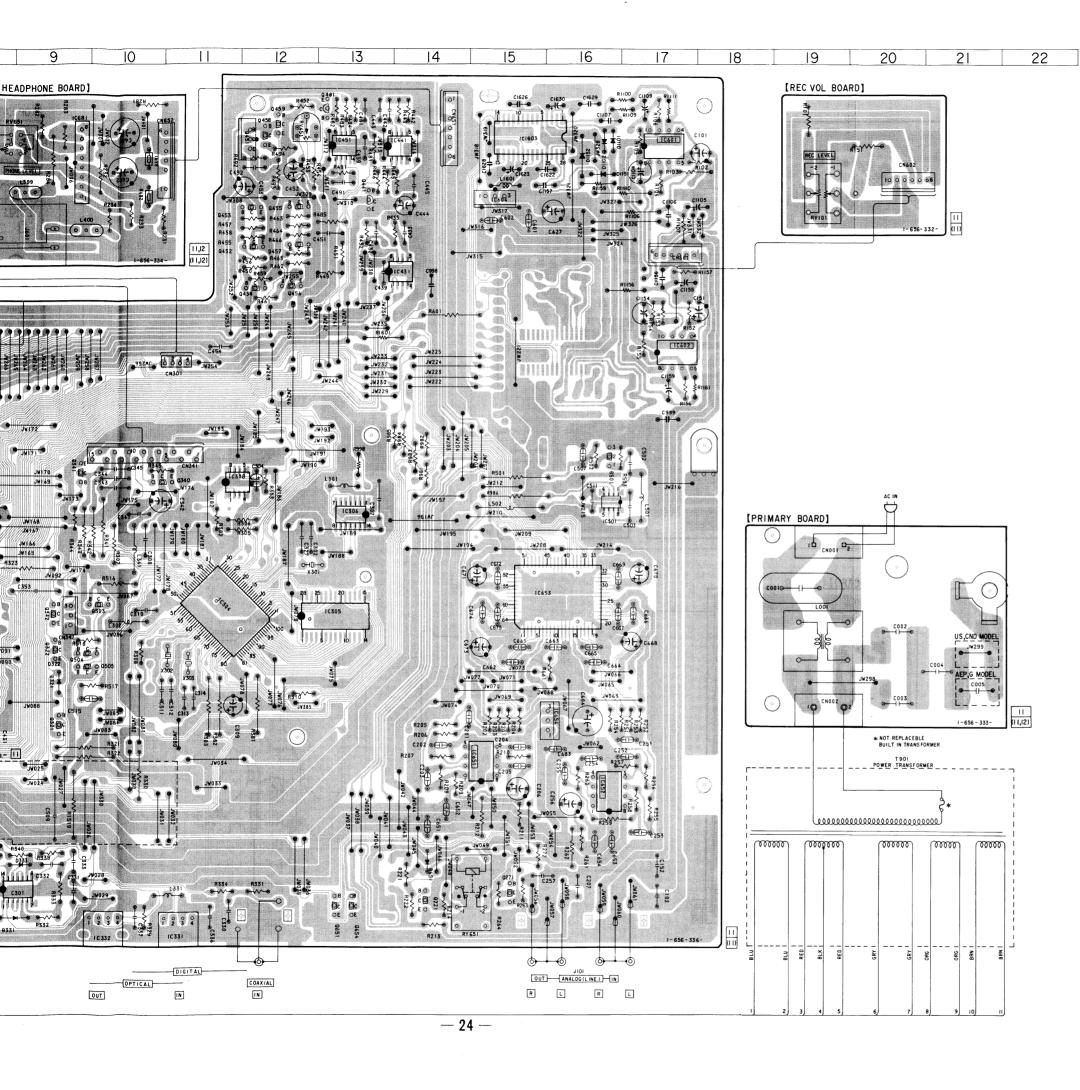






## 4-4. PRINTED WIRING BOARD — MAIN SECTION — • See page 13 for Circuit Boards Location.





#### Semiconductor Location

- o— : parts extracted from the component side.
  Pattern from the side which enable seeing.

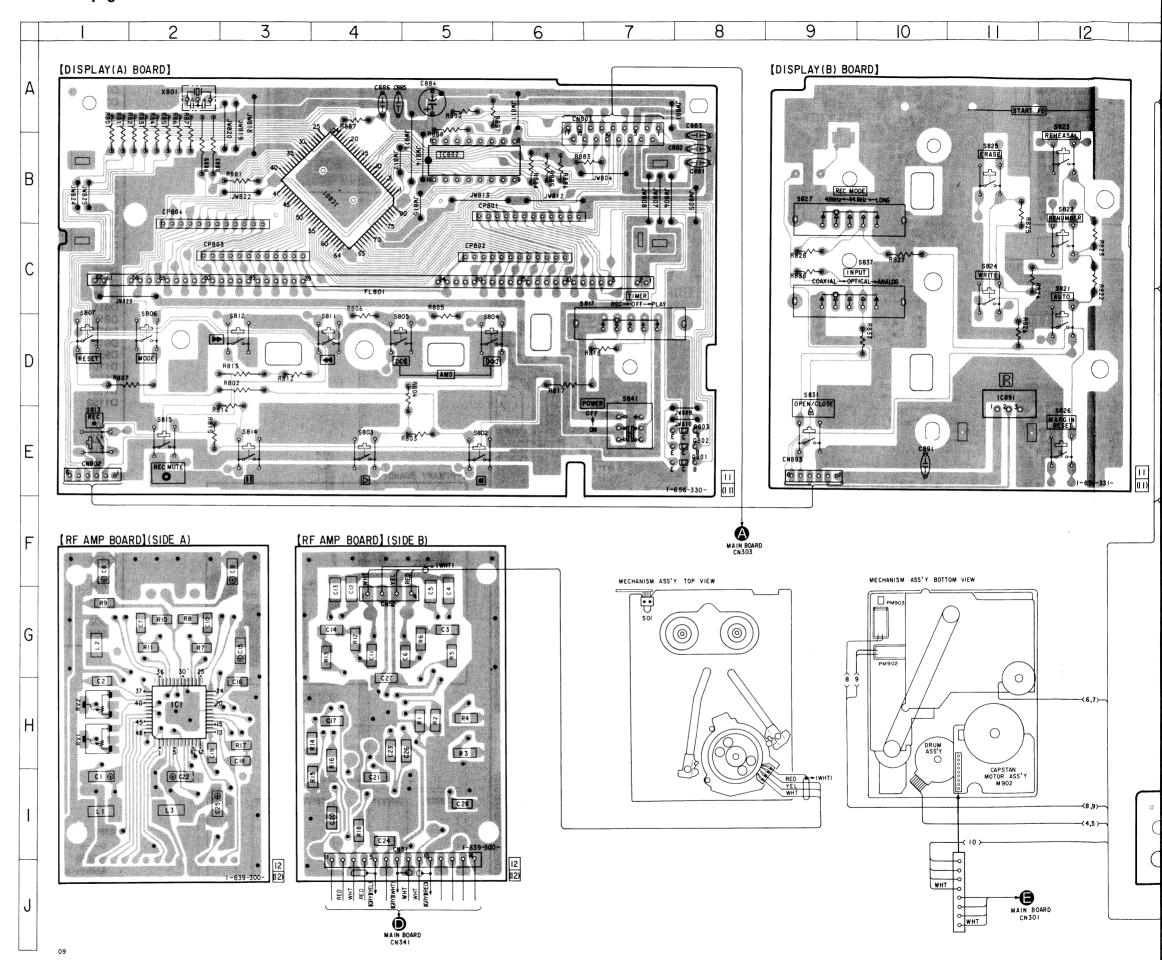
Abbreviations.
 CND : Canadian model.

G : German model.

## 4-5. PRINTED WIRING BOARD — DISPLAY, MD SECTION — • See page 13 for Circuit Boards Location.

### Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D1       | B-15     |
| IC1      | H-2      |
| IC01     | H-16     |
| IC02     | H-14     |
| IC03     | G-14     |
| IC801    | B-4      |
| IC802    | B-5      |
| IC891    | D-11     |
| Q01      | H-15     |
| Q02      | H-15     |
| Q801     | E-8      |
| Q802     | E-8      |
| Q803     | E-8      |



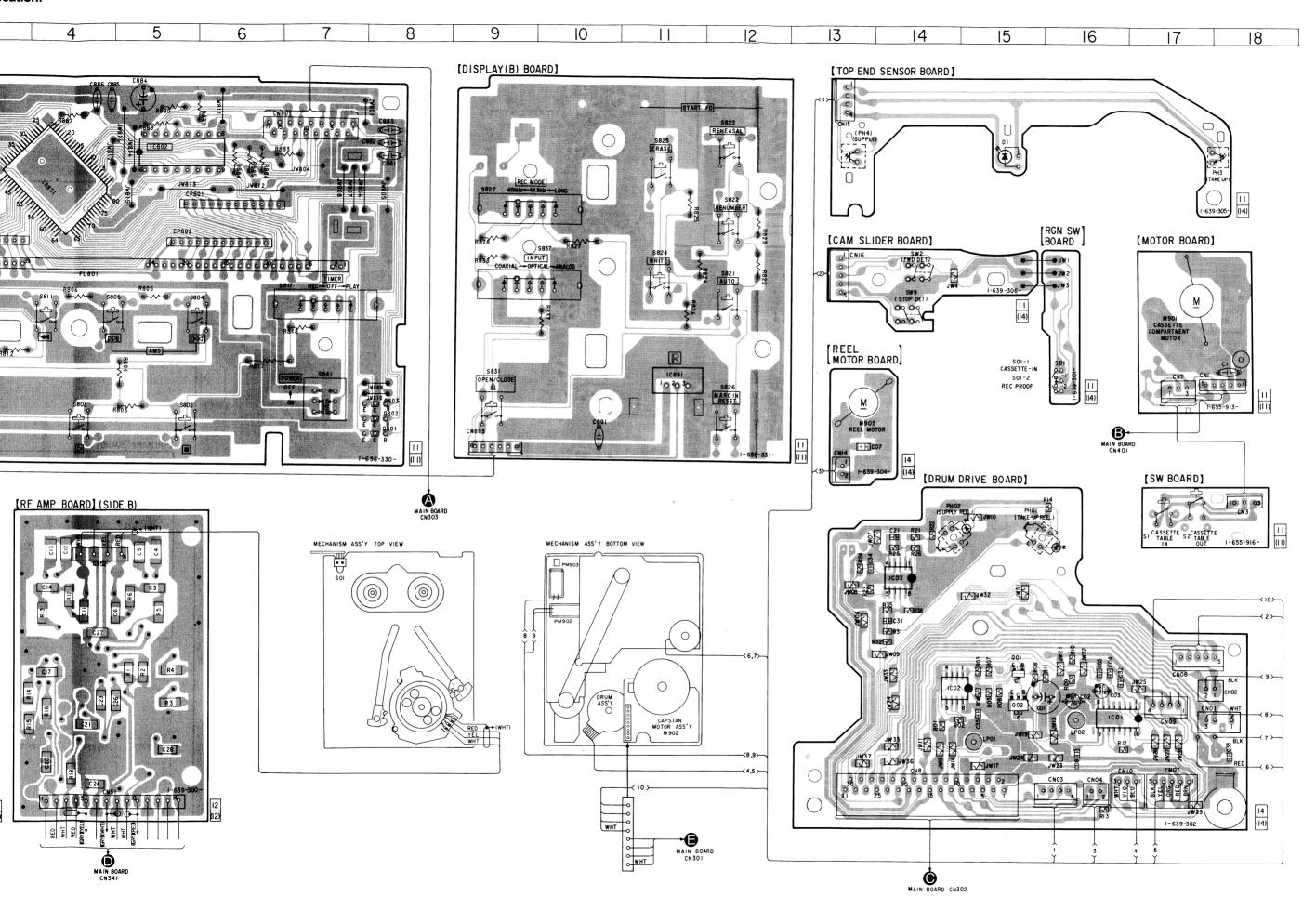
• o----: parts extracted from the component side.

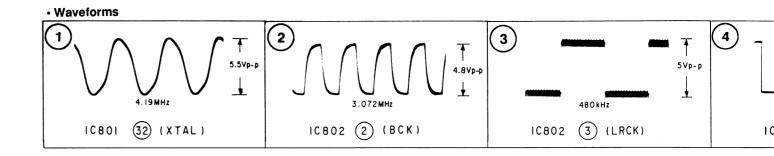
Through hole.

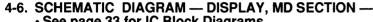
△ : internal component.

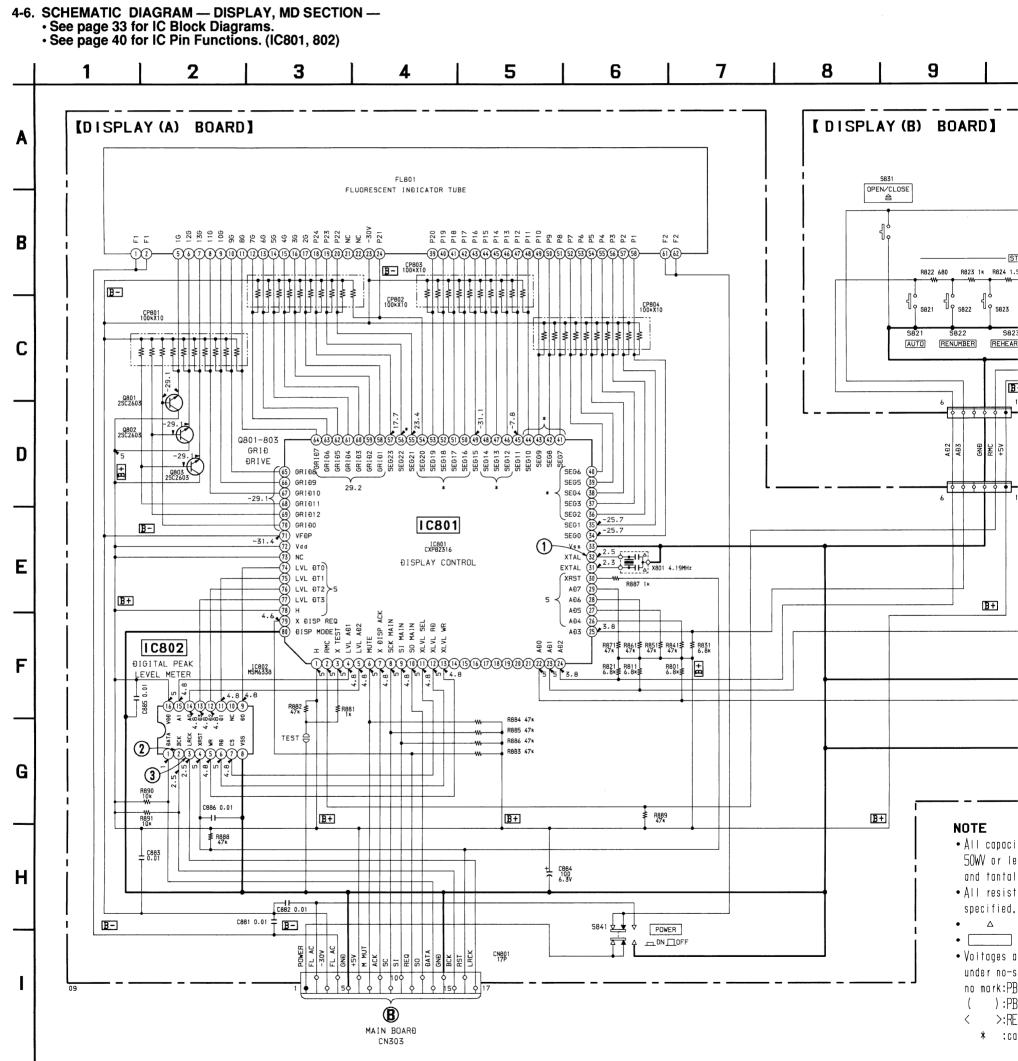
Pattern from the side which enable seeing.

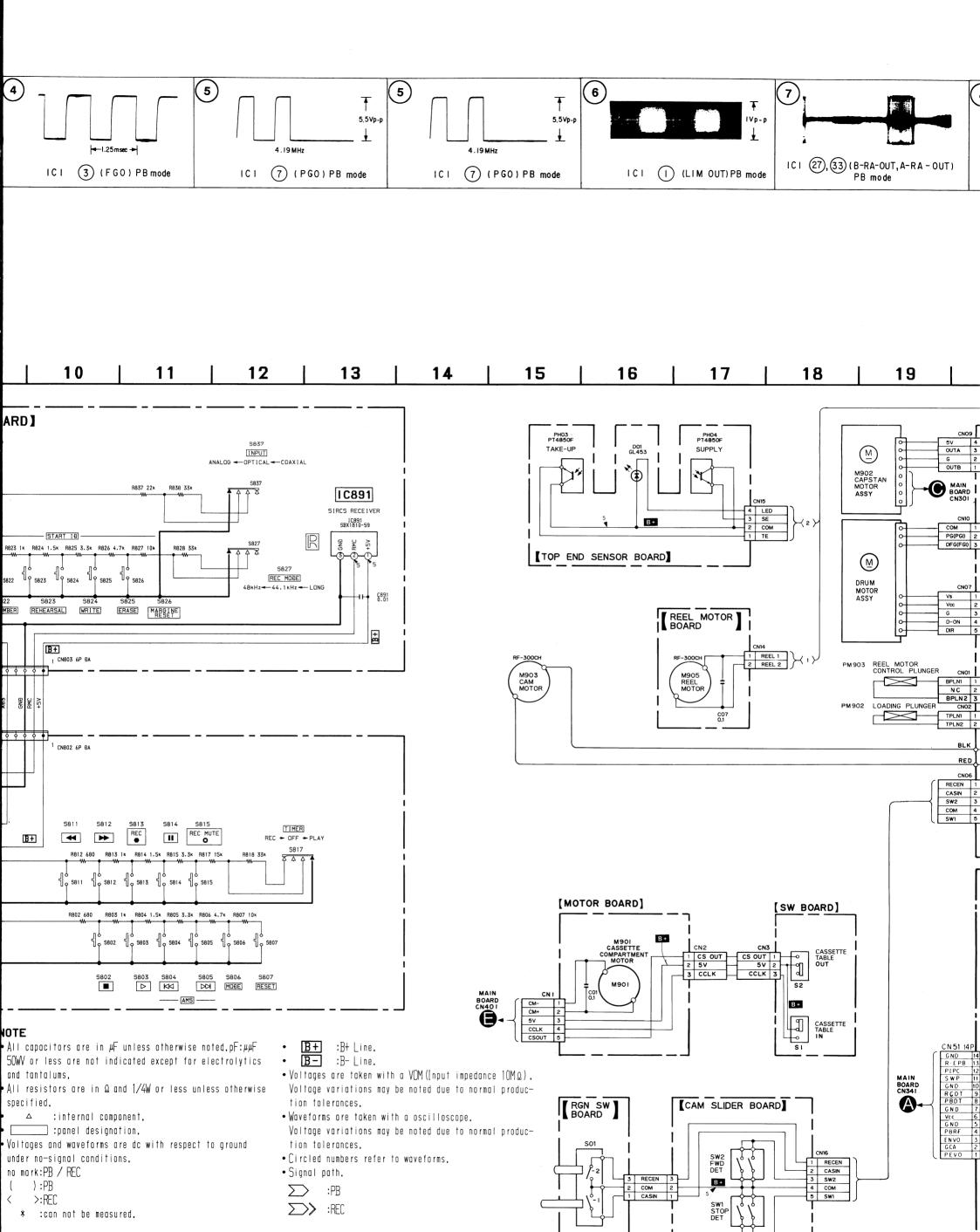
(The other layer's patterns are not indicated.)



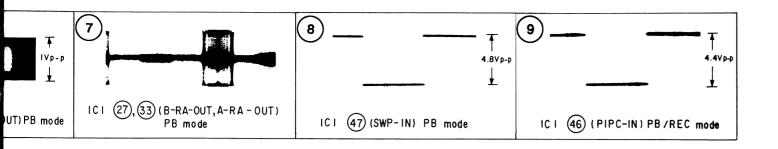


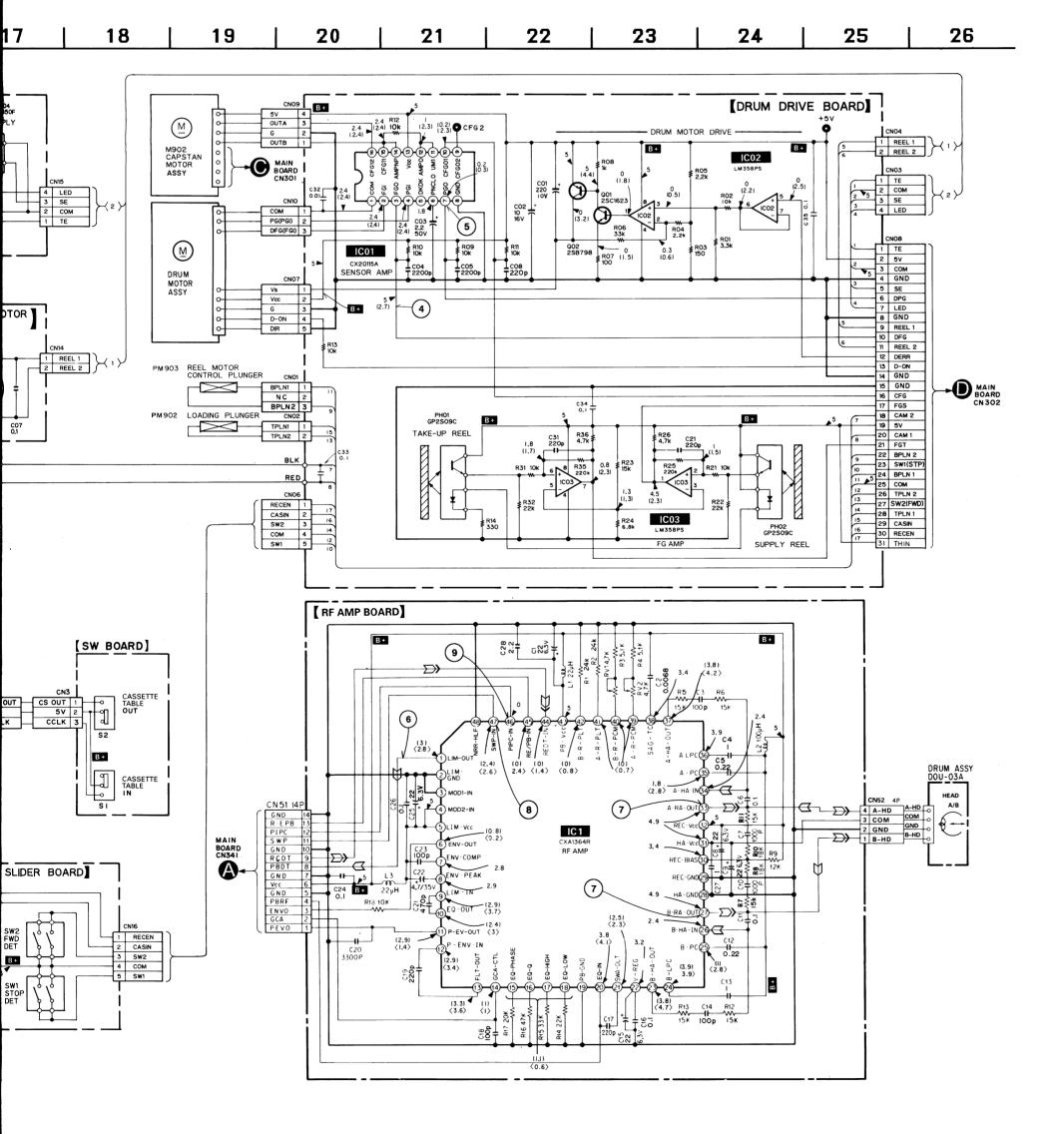




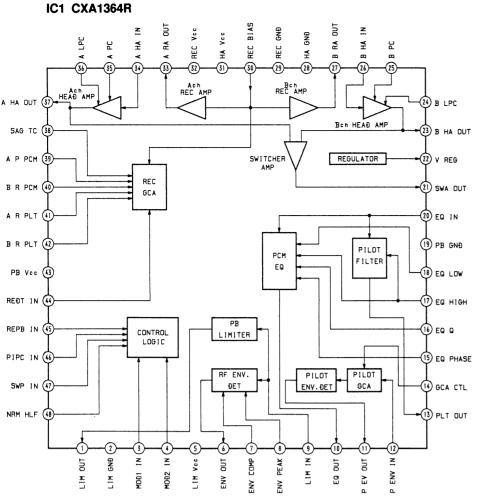


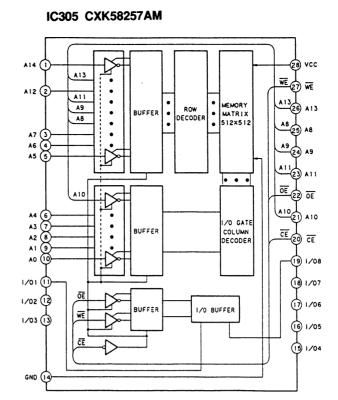
SOI-I CASSETTE IN SO2-2 REC PROOF

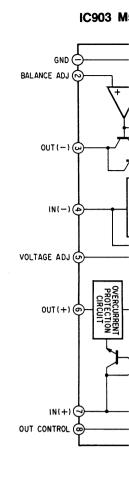




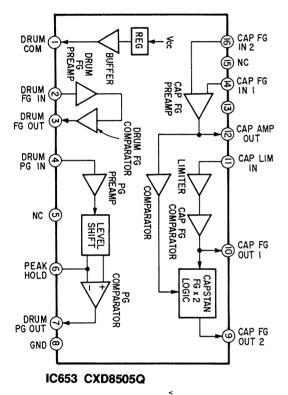
### 4-7. IC BLOCK DIAGRAMS

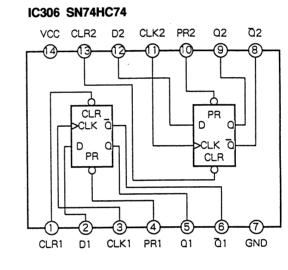










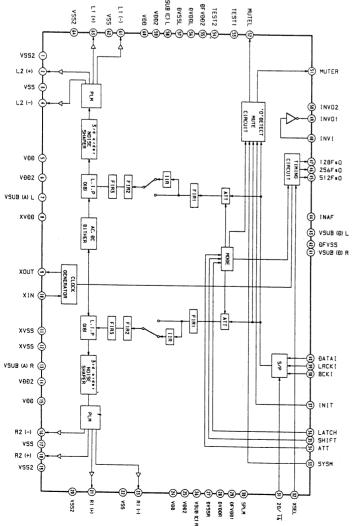


IC421 LB1836M

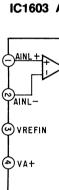
IN4

## **VS2** ٧51 IN1 ② CONTROL 3) DUT1 LOGIC 5) OUT2 IN2 (6) THERMAL SHUT ĐOWN IN3 (13) CONTROL (12) DUT3 LOGIC (ii) OUT4

GNĐ (14) GNĐ



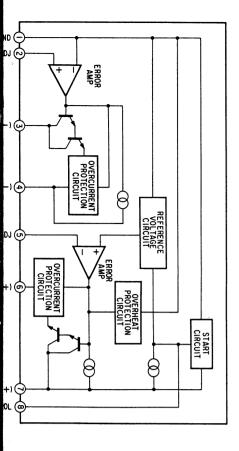
YSS (



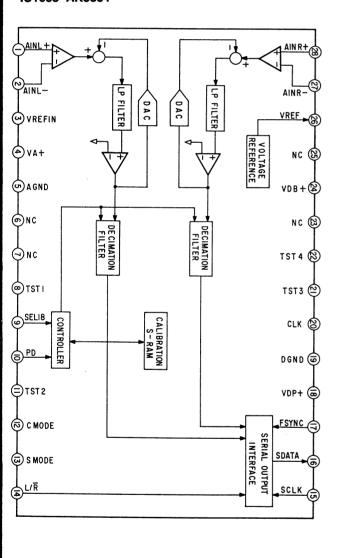
₩ VREFIN ⊚ NC → NC ⊚tst ι SELIB\_ ⊜ PD ⊕TST2 ® C MODE Ѿ S MODE

XSEL 20/ 16

## IC903 M5230L



## IC1603 AK5304



## 4-8. IC PIN FUNCTIONS

## • IC304 CXD2605Q (DSP)

| Pin No. | Pin Name   | 1/0 | Function   |  |  |
|---------|------------|-----|--|--|--|
| 1, 2    | A8, A9     | 0   | External RAM address output  |  |  |
| 3       | VDD        | _   | Power supply (+5V)   |  |  |
| 4 to 8  | A10 to A14 | 0   | External RAM address output  |  |  |
| 9       | XWE        | 0   | External RAM write enable signal output  |  |  |
| 10      | XOE        | 0   | External RAM output enable signal output   |  |  |
| 11      | XEAN       | 0   | Not used (open).   |  |  |
| 12      | TST1       | I   | Test pin. Fixed to "L".  |  |  |
| 13      | XT1O       | 0   | Crystal oscillation circuit 1 output   |  |  |
| 14      | XT1I       | I   | Crystal oscillation circuit 1 input  |  |  |
| 15      | Vss        | _   | GND  |  |  |
| 16      | XRST       | I   | Reset input. "L": Reset.   |  |  |
| 17      | CLKO       | 0   | Not used.  |  |  |
| 18      | MINT       | 0   | Control byte (1) bit 1="L": Q code decode (detecting between songs) output, "H": BCK clock output by RX-PLL. |  |  |
| 19      | ATSY       | I   | ATF sync signal input  |  |  |
| 20      | MCLK       | 0   | Not used.  |  |  |
| 21      | DREF       | 0   | SBSY period, duty 50 signal output   |  |  |
| 22      | SBPM       | 0   | Not used (open).   |  |  |
| 23      | EXCK       | I   | Data transfer clock input for MAIN, MECH CONTROL (IC310)   |  |  |
| 24      | SDSI       | I   | Serial data input from MAIN, MECH CONTROL (IC310)  |  |  |
| 25      | SDSO       | 0   | Serial data output to MAIN, MECH CONTROL (IC310)   |  |  |
| 26      | SBSY       | 0   | Frame sync signal output for transferring data with MAIN, MECH CONTROL (IC310)                               |  |  |
| 27      | RFPL       | 0   | Not used (open).   |  |  |
| 28      | CCLK       | 0   | Not used.  |  |  |
| 29      | MUTE       | I   | Mute input. "H": Mute. Not mute REC monitor sound.   |  |  |
| 30      | MUTM       | 0   | Mute monitor. "H": Indicates muting occurs.  |  |  |
| 31      | UNLK       | 0   | RXPLL lock monitor signal output. "L": Indicates locking occurs.   |  |  |
| 32      | RFCT       | I   | Playback RF signal control ("L": Valid, "H": Invalid) (connected to GND)                                     |  |  |
| 33      | SYMN       | 0   | Outputs monitor signal for C1 check results corresponding to RF.   |  |  |
| 34      | SELB       | I   | Test pin. Fixed to "H".  |  |  |
| 35      | PLCK       | 0   | Not used.  |  |  |
| 36      | TST2       | I   | Test pin. Fixed to "L".  |  |  |
| 37      | RFDT       | I   | Playback RF signal input   |  |  |
| 38      | xcs        | I   | Chip select input for data transfer with microprocessor. "L": Transfer enable. (connected to GND)            |  |  |
| 39      | SWP        | I   | RF switching pulse. "L": A track, "H": B track.  |  |  |
| 40      | Vss        | _   | GND  |  |  |
| 41      | PIPC       | 0   | ATF pilot signal/discrimination signal output for record signal. "H": Pilot signal.                          |  |  |
| 42      | REPB       | 0   | REC/PB discrimination signal output. "H": REC.   |  |  |
| 43      | REDT       | 0   | Record signal output   |  |  |
| 44      | TST4       | I   | Test pin. Fixed to "L".  |  |  |
| 45      | PDO        | 0   | RXPLL phase comparator output  |  |  |

| Function  |
|---|
| put   |
|   |
| put   |
| signal output   |
| le signal output  |
|   |
|   |
| output  |
| input   |
|   |
|   |
|   |
| Q code decode (detecting between songs) output, "H": BCK clock output |
|   |
|   |
| al output   |
|   |
| r MAIN, MECH CONTROL (IC310)  |
| N, MECH CONTROL (IC310)   |
| I, MECH CONTROL (IC310)   |
| or transferring data with MAIN, MECH CONTROL (IC310)                  |
|   |
|   |
| t mute REC monitor sound.   |
| tes muting occurs.  |
| l output. "L": Indicates locking occurs.                              |
| ("L": Valid, "H": Invalid) (connected to GND)                         |
| C1 check results corresponding to RF.                                 |
|   |
|   |
|   |
|   |
| ransfer with microprocessor. "L": Transfer enable.                    |
| track, "H": B track.  |
|   |
| ation signal output for record signal. "H": Pilot signal.             |
| nal output. "H": REC.   |
|   |
|   |
| output  |
|   |

| Pin No.   | Pin Name | I/O | Function  |  |  |  |
|-----------|----------|-----|---|--|--|--|
| 46        | SELC     | I   | Oscillation frequency select signal input (connected to GND)                                |  |  |  |
| 47        | MUTA     | I   | Mute input. "H": Mute. Also mutes REC monitor sound.  |  |  |  |
| 48        | PLCO     | I   | RXPLL external VCO clock input (512 fs as reference)  |  |  |  |
| 49        | PLVR     | 0   | Not used (open).  |  |  |  |
| 50        | PLRF     | 0   | Not used.   |  |  |  |
| 51        | MSSL     | I   | Master mode/slave mode select. "H": Master.   |  |  |  |
| 52        | RX       | I   | Digital interface signal input  |  |  |  |
| 53        | VDD      |     | Power supply (+5V)  |  |  |  |
| 54        | TX       | 0   | Digital interface signal output   |  |  |  |
| 55        | SELA     | I   | Test pin. Fixed to "H".   |  |  |  |
| 56        | EXSY     | I/O | ]   |  |  |  |
| 57        | EXSN     | I/O | External sync signal input/output   |  |  |  |
| - 58      | F128     | I/O |   |  |  |  |
| 59        | F256     | 0   | Not used.   |  |  |  |
| 60        | F512     | 0   | 1)  |  |  |  |
| 61        | ADLF     | I   | ADTT, ADDI, ADDN serial data LSB/MSB first select input. "H": LSB first. (connected to GND) |  |  |  |
| 62        | DALF     | I   | DADT, DADO serial data LSB/MSB first select input. "H": LSB first. (connected to GND)       |  |  |  |
| 63        | XT2O     | 0   | Crystal oscillation circuit 2 output  |  |  |  |
| 64        | XT2I     | I   | Crystal oscillation circuit 2 input   |  |  |  |
| 65        | Vss      | _   | GND   |  |  |  |
| 66        | XT3O     | 0   | Crystal oscillation circuit 3 output  |  |  |  |
| 67        | XT3I     | I   | Crystal oscillation circuit 3 input   |  |  |  |
| 68        | FSEN     | I   | F128, BCK, LRCK input/output select input. "H": Output. Fixed to "H".                       |  |  |  |
| 69        | LR03     | 0   | Inverted signal of LRCK 16 BCK delay output.  |  |  |  |
| 70        | LR02     | 0   |   |  |  |  |
| 71        | LR01     | 0   | Not used (open).  |  |  |  |
| 72        | LRCK     | I/O | fs/2 fs (at 2 × speed) signal input/output  |  |  |  |
| 73        | WCK      | 0   | Not used.   |  |  |  |
| 74        | XBCK     | 0   | Outputs inverted signal of BCK  |  |  |  |
| 75        | BCK      | I/O | 64 fs/128 fs (at 2 × speed) signal input/output   |  |  |  |
| 76        | ADDT     | I   | A/D serial data input   |  |  |  |
| 77        | DADT     | 0   | D/A serial data output  |  |  |  |
| 78        | DADO     | I   | Audio data input for digital OUT  |  |  |  |
| 79        | ADDI     | 0   | Digital IN audio data output  |  |  |  |
| 80        | ADDN     | I   | Digital IN audio data input   |  |  |  |
| 81        | ERRI     | I   | Validity flag data input for digital OUT  |  |  |  |
| 82        | ERRF     | 0   | DADT data compensation data/discrimination signal output. "H": Compensation data.           |  |  |  |
| 83        | MNTG     | 0   | Not used.   |  |  |  |
| 84        | D7       | I/O | External RAM data input/output (MSB)  |  |  |  |
| 85 to 89  | D6 to D2 | I/O | External RAM data input/output  |  |  |  |
| 90        | Vss      | _   | GND   |  |  |  |
| 91        | D1       | I/O | External RAM data input/output  |  |  |  |
| 92        | D0       | I/O | External RAM data input/output (LSB)  |  |  |  |
| 93 to 100 | A0 to A7 | 0   | External RAM address output   |  |  |  |

## • IC310 CXP87532-015Q (MAIN, MECH CONTROL)

| Pin No.  | Pin Name     | I/O | Function                                   |  |           |                               |        |  |
|----------|--------------|-----|--|--|-----------|-------------------------------|--------|--|
| 1        | REEL CW      | 0   | Reel motor CW output. "H                   | I": FWD di   | rection.  |                               |        |  |
| 2        | C DIR RVS    | 0   | Capstan direction control of               | Capstan direction control output. "L": FWD, "H": RVS |           |                               |        |  |
| 3        | PLN ON       | 0   | Brake plunger ON control                   | output.  |           |                               |        |  |
| 4        | PLN KICK     | 0   | Brake plunger kick contro                  | output.  |           |                               |        |  |
| 5        | DON          | 0   | Drum motor ON control o                    | utput.   |           |                               |        |  |
| 6        | EEPROM NG    | 0   | EEPROM condition outpu                     | t to test por  | t. "H": u | nusual, "L": normality        |        |  |
| 7        | DATA         | 0   | Communication line (Seria                  | al data) with  | n Digital | filter.                       |        |  |
| 8        | X SHIFT CK   | 0   | Communication line (Shift                  | clock) wit   | h Digital | filter. "L": shifted, "H": ta | aken   |  |
| 9        | X DIN REC    | 0   | Digital signal control outpo               | ıt. "L": Dig   | ital inpu | t REC                         |        |  |
| 10       | X COA/OPT    | 0   | Digital input switch output                | . "L": coax  | ial, "H": | optical                       |        |  |
| 11       | X LD AD      | 0   | Load to Digital filter for A               | /D converte  | er.       |                               |        |  |
| 12       | X LD DA      | 0   | Load to Digital filter for D               | /A converte  | er.       |                               |        |  |
| 13       | X LD DSP     | 0   | 1  |  |           |                               |        |  |
| 14       | X LD GARY    | 0   | Not used (open).                           | Not used (open).                                     |           |                               |        |  |
| 15       | CAS M IN     | 0   | Cassette compartment mot                   | or rotation  | direction | control output. IN direction  | on.    |  |
| 16       | CAS M OUT    | 0   | Cassette compartment mot                   | or rotation  | direction | control output. OUT direct    | ction. |  |
| 17       | LE           | 0   | Loading motor rotation dir                 | ection cont  | rol outpu | t. Eject direction.           |        |  |
| 18       | LL           | 0   | Loading motor rotation dir                 | ection cont  | rol outpu | t. Loading direction.         |        |  |
| 19       | X ROM SEL    | 0   | ROM select output. "L": E                  | EPROM  |           |                               |        |  |
| 20       | X FS 48K     | 0   |  |  |           |                               |        |  |
| 21       | X FS 44K     | 0   | Not used.                                  |  |           |                               |        |  |
| 22       | X FS 32K     | 0   |  |  |           |                               |        |  |
| 23       | 2 HEAD       | 1   | Head select. Fixed to "H"                  |  |           |                               |        |  |
| 24       | TAPE TH CK   | I   | Detect kinds of tapes. "H":                | normal tap   | e, "L": 7 | Thin tape. Fixed to "H"       |        |  |
| 25       | CAS IN       | 1   | Cassette IN switch input.                  |  |           |                               |        |  |
| 26       | REC EN       | 1   | REC enable switch input.                   |  |           |                               |        |  |
| 27       | CAS LCK      | I   | Cassette compartment lock                  | switch inp   | ut.       |                               |        |  |
| 28       | CAS OUT      | I   | Cassette compartment out                   | switch inpu  | t.        |                               |        |  |
|          |              |     |  | SWI  | SW2       | Position                      | 1      |  |
| 29       | RE FWD       | I   | Encoder SW2 input.                         | L  | L         | EJECT                         | _      |  |
|          |              |     |  | Н  | L         | STOP                          |        |  |
| 30       | RE STOP      | l   | Encoder SW1 input.                         | L  | Н         | FWD                           |        |  |
| 30       | RESTO        | 1   | Encoder 3 w 1 input.                       | Н  | Н         | STOP-FWD                      | 1      |  |
| 31       | EMPHASIS     | 0   | Not used (open).                           |  |           |                               |        |  |
| 32       | X LP REC     | 0   | LP REC control output. "L": LP mode REC.   |  |           |                               |        |  |
| 33       | SBM ON       | 0   | Not used (open).                           |  |           |                               |        |  |
| 34       | X 2605 SEL   | 0   | Chip select output to CXD2605. "L": Active |  |           |                               |        |  |
| 35 to 38 | AF 3 to AF 0 | I   | AF mode select. Fixed to "                 |  | -         |                               |        |  |
| 39       | MP           | _   | Not used (connected to GND).               |  |           |                               |        |  |
| 40       | X RST        | I   | System reset input. "L": Active            |  |           |                               |        |  |

| Pin No. | Pin Name     | 1/0 | Function  |
|---------|--------------|-----|---|
| 41      | Vss          | _   | GND   |
| 42      | XTAL         | 0   | System clock output (open).   |
| 43      | EXTAL        | I   | System clock input (9.408MHz).  |
| 44      | X DISP REQ   | 0   | Communication request output to DISPLAY CONTROL (IC801). "L": Active      |
| 45      | REC DI       | 0   | Record current control output. "H": Record disable "H": Record enable     |
| 46      | X END LED ON | 0   | End sensor ON control output. "L": Active                                 |
| 47      | END LED ON   | 0   | Not used (open).  |
| 48      | X DISP ACK   | I   | Communication acknowledge input from DISPLAY CONTROL (IC801). "L": Active |
| 49      | DE DT I      | I   | Serial data input from DISPLAY CONTROL (IC801) and EEPROM.                |
| 50      | DE DT O      | 0   | Serial data output to DISPLAY CONTROL (IC801) and EEPROM.                 |
| 51      | DE CK        | 0   | Serial clock output to DISPLAY CONTROL (IC801) and EEPROM.                |
| 52      | X SBSY       | I   | SUB SYNC input from CXD2605 (master).                                     |
| 53      | SR DT IN     | I   | Serial data input from CXD2605.   |
| 54      | SR DT OUT    | 0   | Serial data output to CXD2605.  |
| 55      | X SR CK      | 0   | Serial clock output to CXD2605 (for sub code interface).                  |
| 56      | AVss         | _   | GND for A/D port.   |
| 57      | AVref        | _   | Reference voltage for A/D port (+5V).                                     |
| 58      | AVdd         | _   | Power supply for A/D port (+5V).  |
| 59      | T END        | I   | T side end sensor input.  |
| 60      | S END        | ı   | S side end sensor input.  |
| 61      | X 993        | I   | Fixed to "L".   |
| 62      | X ROM BSY    | I   | Communication direction signal input from EEPROM. "L": Busy               |
| 63      |              | I   | Not used (connected to GND).  |
| 64      | MUT MON      | I   | Mute monitor input. "H": Active   |
| 65      | M INT        | I   | Q code decode value input. "H": Between songs                             |
| 66      | ATF IN       | I   | ATF pilot signal input (Analog input).                                    |
| 67      | FG T         | I   | T side reel FG signal input.  |
| 68      | FG S         | I   | S side reel FG signal input.  |
| 69      | C FG         | I   | Capstan FG signal input.  |
| 70      | D FG         | I   | Drum FG signal input.   |
| 71      | D PG         | I   | Drum PG signal input.   |
| 72      | D REF        | I   | Drum reference signal input.  |
| 73      | ATF S2       | I   | DPG auto adjustment FRC signal input.                                     |
| 74      |              | I   | Not used (connected to GND)   |
| 75      | MAIN CHECK   | 0   | Main routine passed check output.   |
| 76      | X CAS TEST   | I   | Test pin. "L": Test mode with no cassette compartment.                    |
| 77      | MST CK       | I   | Master clock input (9.408MHz).  |
| 78      | PB DT        | I   | ATF SYNC PB data input.   |
| 79      | SW P         | 0   | Switching pulse output.   |
| 80      | AGC PWM      | 0   | PWM signal output for AGC.  |

| Pin No. Pin Name |               | I/O | Function  |  |  |  |
|------------------|---------------|-----|---|--|--|--|
| 81               | PWM R         | 0   | PWM signal output for reel motor.   |  |  |  |
| 82               | TEN PWM       | 0   | PWM signal output for tension regulater plunger.                              |  |  |  |
| 83               | D PWM         | 0   | PWM signal output for drum motor drive.                                       |  |  |  |
| 84               | C PWM         | 0   | PWM signal output for capstan motor.  |  |  |  |
| 85               | SY MN         | I   | Syndrome monitor for error rate count input.                                  |  |  |  |
| 86               | X TEST        | I   | Test pin. "L": Test mode  |  |  |  |
| 87               | POW DN        | I   | Not used (Connected to +5V).  |  |  |  |
| 88               | Vss           | -   | GND   |  |  |  |
| 89               | Vdd           | _   | Power supply (+5V).   |  |  |  |
| 90               | Vpp           | _   | Connected to +5V.   |  |  |  |
| 91               | ATF S2        | 0   | ATF sampling pulse #2 output.   |  |  |  |
| 92               | AREA          | 0   | AREA signal output.   |  |  |  |
| 93               | X A/D INIT    | 0   | Not used (open).  |  |  |  |
| 94               | X D/A INIT    | 0   | D/A digital filter reset output. "L": Reset                                   |  |  |  |
| 95               | X L MUTE      | 0   | Line mute output. "L": Active   |  |  |  |
| 96               | AD PDN        | 0   | A/D converter control output. "H": Power down, "L": Active                    |  |  |  |
| 97               | X RY MUTE     | 0   | Relay mute signal output. "L": Active   |  |  |  |
| 98               | MUTE 2605     | 0   | Mute signal to CXD2605. "H": Active   |  |  |  |
| 99               | RST/ERR CHECK | 0   | Test pin. Head address passed check. Error rate check. "L": OK, "H": NG > 400 |  |  |  |
| 100              | REEL CCW      | 0   | Reel motor CCW output. "L": RVS direction                                     |  |  |  |

## • IC801 CXP82316-054Q (DISPLAY CONTROL)

| 2 3      | Н                  | 1   |   |  |  |  |
|----------|--------------------|-----|---|--|--|--|
|          |                    | I   | Not used (connected to +5V).  |  |  |  |
| 3        | RMC                | I   | Remote control signal input.  |  |  |  |
|          | X TEST             | I   | Test pin. "L": Test mode  |  |  |  |
| 4        | LVL AD1            | 0   | METER IC(ICSO2) 4 bit add and the                                   |  |  |  |
| 5        | LVL AD0            | 0   | METER IC(IC802) 4-bit address bus.                                  |  |  |  |
| 6        | MUTE               | I   | Level meter mute signal input.                                      |  |  |  |
| 7        | X DISP ACK         | 0   | Acknowledge signal output to MAIN, MECH CONTROL (IC310).            |  |  |  |
| 8        | SCK MAIN           | I   | Serial clock input from MAIN, MECH CONTROL (IC310).                 |  |  |  |
| 9        | SI MAIN            | I   | Serial data input from MAIN, MECH CONTROL (IC310).                  |  |  |  |
| 10       | SO MAIN            | 0   | Serial data output to MAIN, MECH CONTROL (IC310).                   |  |  |  |
| 11       | XLVL SEL           | 0   | CS signal output to METER IC (IC802).                               |  |  |  |
| 12       | XLVL RD            | 0   | RD signal output to METER IC (IC802).                               |  |  |  |
| 13       | XLVL WR            | 0   | WR signal output to METER IC (IC802).                               |  |  |  |
| 14       | RMC SEL            | l   |   |  |  |  |
| 15       | LED PLAY           | 0   |   |  |  |  |
| 16       | LED PAUSE          | 0   | Not used (open).  |  |  |  |
| 17       | LED REC            | 0   |   |  |  |  |
| 18 to 21 |                    | 0   |   |  |  |  |
| 22 to 29 | AD0 to AD7         | ı   | Key switch AD0 to AD7 series input.                                 |  |  |  |
| 30       | X RESET            | ı   | System reset input. "L": Active                                     |  |  |  |
| 31       | EXTAL              | I   | System clock input. (4.19MHz).                                      |  |  |  |
| 32       | XTAL               | 0   | System clock output (4.19MHz).                                      |  |  |  |
| 33       | Vss                | -   | GND   |  |  |  |
| 34 to 57 | SEG0 to SEG23      | 0   | FL display segment drive output.                                    |  |  |  |
| 58 to 67 | GRID1 to GRID10    | 0   |   |  |  |  |
| 68       | GRID12             | 0   |   |  |  |  |
| 69       | GRID11             | 0   | FL display grid drive output.                                       |  |  |  |
| 70       | GRID0              | 0   |   |  |  |  |
| 71       | VFDP               | I   | -30V power supply for driving FL display.                           |  |  |  |
| 72       | Vdd                | _   | Power supply (+5V).   |  |  |  |
| 73       | NC                 |     | Not used (connected to +5V)   |  |  |  |
| 74 to 77 | LVL DT0 to LVL DT3 | I/O | METER IC (IC802) 4-bit data bus.                                    |  |  |  |
| 78       | Н                  | I   | Not used (connected to +5V)   |  |  |  |
| 79       | X DISP REQ         | I   | Communication request signal input from MAIN, MECH CONTROL (IC310). |  |  |  |
|          | X DISP MODE        | I   | Not used (connected to GND).  |  |  |  |

## • IC802 MSM6338RS (METER IC)

| Pin No. | Pin Name | I/O   | Function  |  |  |  |
|---------|----------|-------|---|--|--|--|
| 1       | DATA     | I     | fs serial data input (2's complement)                       |  |  |  |
| 2       | BCK      | I     | fs serial data fetch clock (bit clock)                      |  |  |  |
| 3       | LRCK     | I     | fs input Lch/Rch discrimination signal. "H": Rch, "L": Lch. |  |  |  |
| 4       | XRST     | I     | Reset input. "L": Reset.                                    |  |  |  |
| 5       | XWR      | I     | Data write request input (data write at rising edge)        |  |  |  |
| 6       | XRD      | I     | Data read request input ("L": Read enable)                  |  |  |  |
| 7       | XCS      | I     | Chip select input ("L": Select)                             |  |  |  |
| 8       | Vss      | -     | GND   |  |  |  |
| 9       | D0       | I/O/Z | 4-bit data bus (tristate)                                   |  |  |  |
| 10      | NC       | -     | Not used (open).  |  |  |  |
| 11      | D1       | I/O/Z |   |  |  |  |
| 12      | D2       | I/O/Z | 4-bit data bus (tristate)                                   |  |  |  |
| 13      | D3       | I/O/Z |   |  |  |  |
| 14      | A0       | I     | Address input Salasta internal register                     |  |  |  |
| 15      | Al       | I     | Address input. Selects internal register.                   |  |  |  |
| 16      | VDD      | _     | Power supply (+5V).   |  |  |  |

## SECTION 5 EXPLODED VIEWS

#### NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

CND: Canadian model
G: German model

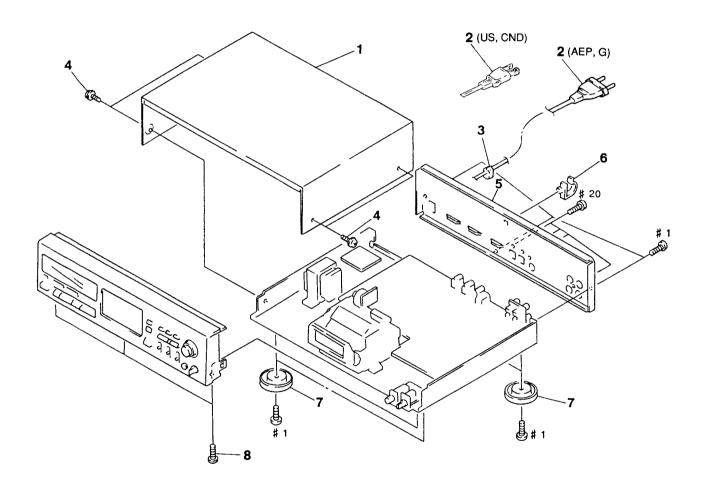
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque riangle sont critiques pour la sécurité.

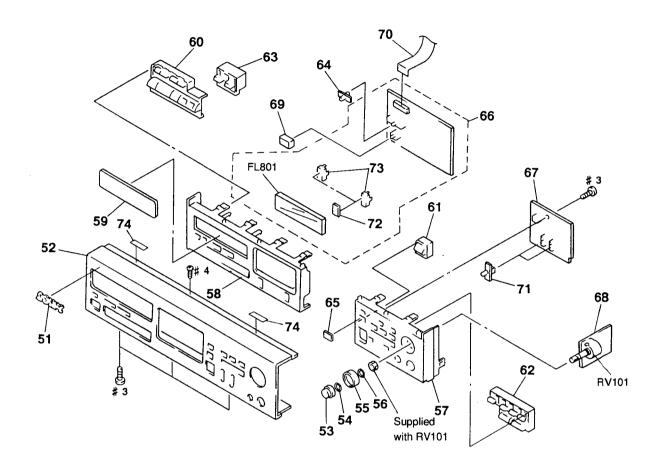
Ne les remplacer que par une piéce portant le numéro spécifié.

#### 5-1. CASE SECTION



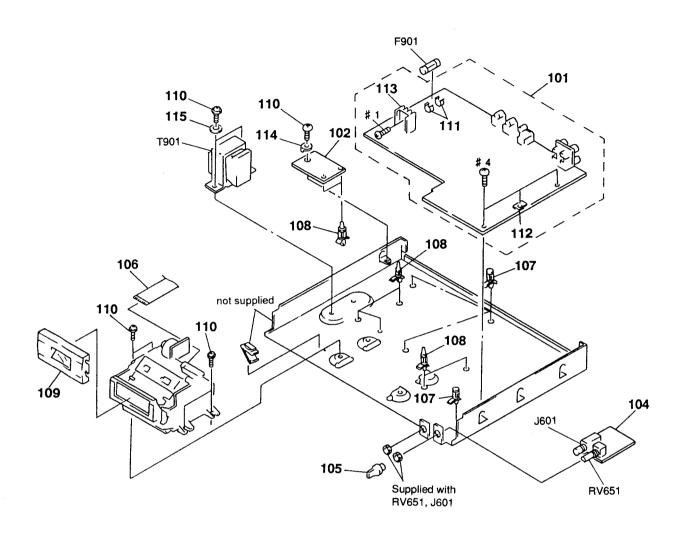
| Ref. No.                  | Part No.     | Description  | Remark | Ref. No.        | Part No.                                     | Description  | Remark |
|---------------------------|--------------|--|--------|-----------------|--|--|--------|
| 1<br>2<br>1\2<br>*\3<br>4 | 3-703-244-00 | CASE CORD, POWER (AEP, G) CORD, POWER (US, CND) BUSHING (2104), CORD SCREW (CASE) (M3X8) |        | * 5<br>* 6<br>7 | 3-922-820-21<br>4-949-235-01<br>4-956-885-11 | PANEL, BACK (US, CND) PANEL, BACK (AEP, G) HOOK FOOT (F58175S2W) SCREW (+BV 3X8) |        |

### 5-2. FRONT PANEL SECTION



| Ref. No.             | Part No.     | Description                                  | Remark | Ref          | . No. | Part No.     | Description                                      | Remark |
|----------------------|--------------|--|--------|--------------|-------|--------------|--|--------|
| 51                   | 4-942-568-01 | EMBLEM (NO. 5), SONY                         |        | 6            | 4     | 4-922-518-01 | KNOB (TIMER)                                     |        |
| 52<br>52<br>53       | 3-922-821-21 | PANEL, FRONT (US, CND) PANEL, FRONT (AEP, G) |        | 6            |       |              | WINDOW (REMOTE CONTROL)                          |        |
| 53                   |              | KNOB (REC-R)                                 |        | * 60<br>* 6' |       |              | DISPLAY (A) BOARD, COMPLETE<br>DISPLAY (B) BOARD |        |
| 54                   | 3-356-957-01 | SPRING                                       |        | * 6          |       |              | REC VOL BOARD                                    |        |
| 55                   | 3-382-634-01 | KNOB (REC-L)                                 |        | 69           |       |              | BUTTON (POWER)                                   |        |
| 56<br>57<br>58<br>59 |              | SPRING, RING                                 |        |              |       |              |  |        |
| 57                   |              | ESCUTCHEON (R)                               |        | 7            |       |              | WIRE (FLAT TYPE) (17 CORE)                       |        |
| 58                   |              | ESCUTCHEON (L)                               |        | 7            |       | 3-917-216-11 |  |        |
| 59                   | 3-922-932-01 | WINDOW (FL TUBE)                             |        | * 7          |       | 4-932-810-11 |  |        |
|                      |              |  |        | <b>*</b> 73  |       | 4-947-170-01 |  |        |
| 60                   | 3-922-824-01 | BUTTON (1)                                   |        | 7            | 4     | 3-831-441-XX | CUSHION, SPEAKER                                 |        |
| 61                   | 3-922-825-01 | BUTTON (2)                                   |        |              |       |              |  |        |
| 61<br>62<br>63       | 3-922-826-01 | BUTTON (3)                                   |        |              |       |              | INDICATOR TUBE, FLUORESCENT                      | Dr. )  |
| 63                   | 3-922-827-01 | BUTTON (4)                                   |        | R            | W101  | 1-241-937-11 | RES, VAR, CARBON 20K/20K (REC LEV)               | EL)    |

#### 5-3. CHASSIS SECTION

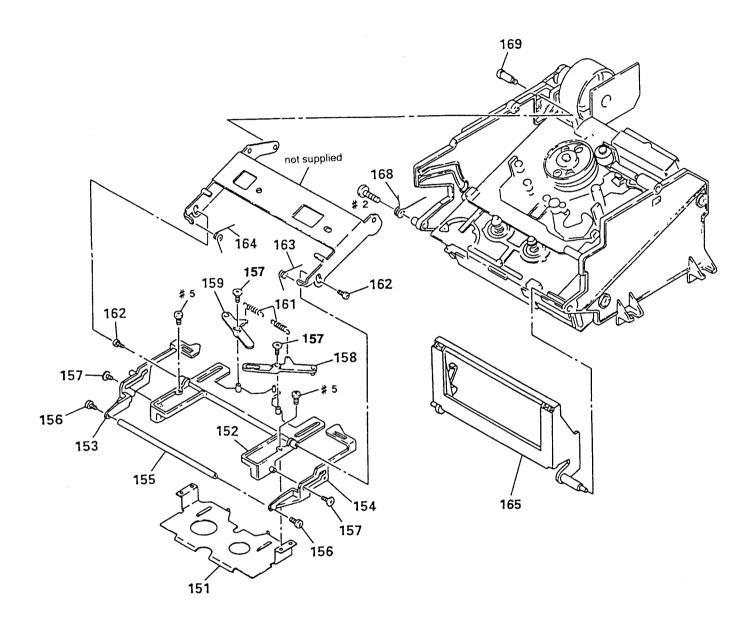


The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

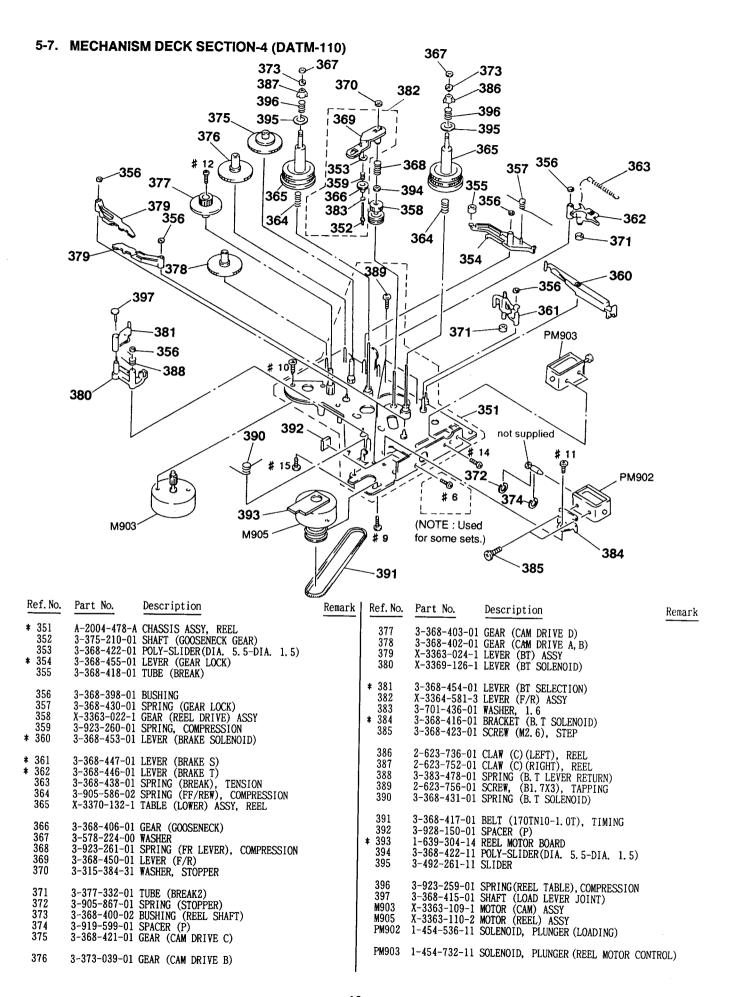
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

| Ref. No.                                  | Part No.                                     | Description   | Remark | Ref. No.                               | Part No.                                     | Description   | Remark |
|---|--|---|--------|--|--|---|--------|
| * 101<br>* 101<br>* 101<br>* 102<br>* 104 | A-2007-389-A<br>A-2007-390-A<br>1-656-333-11 | MAIN BOARD, COMPLETE (US) MAIN BOARD, COMPLETE (CND) MAIN BOARD, COMPLETE (AEP, G) PRIMARY BOARD HEADPHONE BOARD            |        | * 111<br>112<br>* 113<br>* 114         | 1-537-770-21<br>4-363-146-71                 | HOLDER, FUSE<br>TERMINAL BOARD, GROUND<br>HEAT SINK, V. OUT<br>PLATE, GROUND  |        |
| 105<br>106<br>* 107<br>108<br>109         | 1-775-389-11<br>3-670-570-00<br>4-924-098-01 | KNOB (DIA. 12) ASSY (B), FLAT<br>WIRE (FLAT TYPE) (31 CORE)<br>SPACER, SUPPORT<br>HOLDER, PC BOARD<br>PANEL (CASSETTE) ASSY |        | 115<br>↑F901<br>↑F901<br>J601<br>RV651 | 1-532-286-00<br>1-576-105-11<br>1-770-904-11 | WASHER, SPECIAL FUSE (T2. 5A 250V) (AEP, G) FUSE (2. 5A 250V) (US, CND) JACK (LARGE TYPE) (PHONES) RES, VAR, CARBON 20K/20K (PHONE LE | EVEL)  |
| 110                                       |  | SCREW, S TIGHT, +PTTWH 3X6  |        | <b>↑</b> T901<br><b>↑</b> T901         | 1-427-889-11<br>1-427-890-11                 | TRANSFORMER, POWER (US, CND) TRANSFORMER, POWER (AEP, G)  |        |

### 5-4. MECHANISM DECK SECTION-1



| Ref. No. Part No. Description                                       | Remark      | Ref. No.   | Part No.     | Description                            | Remark |
|---|-------------|------------|--------------|--|--------|
| 151 3-373-224-01 HOLDER (LOWER)<br>152 3-373-237-03 HOLDER (UPPER), | CASSETTE    | 161        | 3-632-859-00 | SPRING, BRAKE LEVER RETURN             |        |
| 152 3-373-237-03 HOLDER (UPPER),<br>153 3-373-223-01 SLIDER (L)     | CASOBITE    | 162        |              | SCREW (B1.7X4), TAPPING                |        |
| 154 3-373-222-01 SLIDER (R)   |             | 163        |              | SPRING (R), TORSION                    |        |
| * 155 3-373-217-01 SHAFT (JOINT)                                    |             | 164<br>165 |              | SPRING (L), TORSION<br>HOLDER (WINDOW) |        |
| 156 3-345-648-61 SCREW (M1.4), T                                    | OOTHED LOCK | 168        | 3-373-212-01 | SPRING (CASSETTE)                      |        |
| 157 3-318-201-11 SCREW (B) (1.4X3)                                  | ), TAPPING  | 169        | 4_021_471_01 | SCREW (STEP)                           |        |
| 158 3-373-218-01 LEVER (R)<br>159 3-373-219-01 LEVER (L)            |             | 103        | 4 551 411 01 | Oldi (Oldi)                            |        |



### **CAM SLIDER**

### DISPLAY (A

### **SECTION 6 ELECTRICAL PARTS LIST**

NOTE:

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS All resistors are in ohms METAL: Metal-film resistor METAL OXIDE: Metal Oxide-film resistor F: nonflammable

 SEMICONDUCTORS In each case, u:  $\mu$ , for example: uA...:  $\mu$  A..., uPA...:  $\mu$  PB...;  $\mu$  PB...; uPC...: μ PC..., uPD...: μ PD...

 CAPACITORS  $uF: \mu F$ 

• COILS  $uH: \mu H$ 

• Abbreviation

CND : Canadian model : German model

| Ref. No. | Part No.      | Description                                | Remark      | Ref. No.     | Part No.                     | Description  | 1                            |             |              | Remark   |
|----------|---------------|--|-------------|--------------|------------------------------|--------------|------------------------------|-------------|--------------|----------|
| *        | 1-639-306-11  | CAM SLIDER BOARD                           |             | Q803         | 8-729-620-05                 | TRANSISTOR   | 2SC2603-I                    | EF          |              |          |
|          |               | ******                                     |             |              |                              | < RESISTOR   | >                            |             |              |          |
|          |               | < SWITCH >                                 |             | ļ            |                              |              | 0.017                        | <b>-0</b> / | 1 / 407      | <b>D</b> |
|          |               | ( , , , , , , , , , , , , , , , , , , ,    |             | R801         | 1-249-427-11<br>1-249-415-11 |              | 6.8K<br>680                  | 5%<br>5%    | 1/4W<br>1/4W |          |
| SW1      | 1-570-953-11  | SWITCH, PUSH (1 KEY) (STOP DET)            |             | R802<br>R803 | 1-249-415-11                 |              | 1K                           | 5%          | 1/4₩         |          |
| SW2      | 1-570-953-11  | SWITCH, PUSH (1 KEY) (FWD DET)             |             | R804         | 1-249-419-1                  |              | 1. 5K                        |             | 1/4₩         |          |
| ******   | *****         | ***********                                | ******      | R805         | 1-249-423-1                  |              | 3. 3K                        | 5%          | 1/4W         | F        |
| *******  |               |  |             | R806         | 1-249-425-1                  | 1 CARRON     | 4. 7K                        | 5%          | 1/4W         | F        |
| *        | A-2007-387-A  | DISPLAY (A) BOARD, COMPLETE                |             | R807         | 1-249-429-1                  |              | 10K                          | 5%          | 1/4W         | •        |
|          |               | *******                                    |             | R811         | 1-249-427-1                  |              | 6. 8K                        |             | 1/4W         | F        |
|          | 4 000 010 11  | CUSHION (FL)                               |             | R812         | 1-249-415-1                  |              | 680                          | 5%          | 1/4W         |          |
| *        | 4-932-810-11  |  |             | R813         | 1-249-417-1                  |              | 1K                           | 5%          | 1/4W         | F        |
| *        | 4-941-110-01  | INCLUER                                    |             |              |                              |              |                              |             |              |          |
|          |               | < CAPACITOR >                              |             | R814         | 1-249-419-1                  |              | 1.5K                         |             | 1/4W         |          |
|          |               | •  |             | R815         | 1-249-423-1                  |              | 3. 3K                        |             | 1/4W         | F        |
| C881     | 1-164-096-11  | CERAMIC 0.01uF                             | 50V         | R817         | 1-249-431-1                  |              | 15K                          | 5%          | 1/4₩         |          |
| C882     | 1-164-096-13  | 1 CERAMIC 0.01uF                           | 50V         | R818         | 1-249-435-1                  |              | 33K                          | 5%          | 1/4W<br>1/4W | D.       |
| C883     | 1-164-096-13  | 1 CERAMIC 0.01uF                           | 50V         | R821         | 1-249-427-1                  | 1 CARBON     | 6. 8K                        | <b>576</b>  | 1/47         | Г        |
| C884     | 1-126-177-1   |  | 10V         | D001         | 1-249-427-1                  | 1 CADDON     | 6. 8K                        | 5%          | 1/4₩         | F        |
| C885     | 1-164-096-1   | 1 CERAMIC 0.01uF                           | 50 <b>V</b> | R831<br>R841 | 1-249-427-1                  |              | 47K                          | 5%          | 1/4          | •        |
|          |               | 0.01.F                                     | 50 <b>V</b> | R851         | 1-249-437-1                  |              | 47K                          | 5%          | 1/4          |          |
| C886     | 1-164-096-1   | 1 CERAMIC 0.01uF                           | 5U¥         | R861         |                              |              | 47K                          | 5%          | 1/4W         |          |
|          |               | CONNECTOR \                                |             | R871         | 1-249-437-1                  |              | 47K                          | 5%          | 1/4          |          |
|          |               | < CONNECTOR >                              |             | 1.0.1        | 1 210 10.                    |              |                              |             |              |          |
| CN801    | 1-568-860-1   | 1 SOCKET, CONNECTOR 17P                    |             | R881         | 1-249-417-1                  |              | 1K                           | 5%          | 1/47         | F        |
| 0001     |               | ,  |             | R882         | 1-249-437-1                  |              | 47K                          | 5%          | 1/47         |          |
|          |               | < COMPOSITION CIRCUIT BLOCK >              |             | R883         | 1-249-437-1                  |              | 47K                          | 5%          | 1/47         |          |
|          |               |  |             | R884         |                              |              | 47K<br>47K                   | 5%<br>5%    | 1/41<br>1/41 |          |
| CP801    | 1 1-233-276-1 | 1 COMPOSITION CIRCUIT BLOCK                |             | R885         | 1-249-437-1                  | II CARBON    | 411                          | 376         | 1/41         |          |
| CP802    | 2 1-233-276-1 | 1 COMPOSITION CIRCUIT BLOCK                |             | R886         | 1-249-437-1                  | 1 CARRON     | 47K                          | 5%          | 1/41         |          |
| CP803    | 3 1-233-276-1 | 1 COMPOSITION CIRCUIT BLOCK                |             | R887         |                              |              | 1K                           | 5%          | 1/41         | F        |
| CP804    | 4 1-233-276-1 | 1 COMPOSITION CIRCUIT BLOCK                |             | R888         |                              |              | 47K                          | 5%          | 1/47         |          |
|          |               | <pre>&lt; FLUORESCENT INDICATOR &gt;</pre> |             | R889         |                              |              | 47K                          | 5%          | 1/47         |          |
|          |               | ( PEDOMESCENT INSTORTOR )                  |             | R890         |                              | 11 CARBON    | 10K                          | 5%          | 1/4          |          |
| FL80     | 1 1-517-382-1 | 1 INDICATOR TUBE, FLUORESCENT              |             | D001         | 1-249-429-                   | 11 CADDON    | 10K                          | 5%          | 1/4          |          |
|          |               | < IC >                                     |             | R891         | 1-249-429-                   | II CARDON    | 101                          | 370         | 1/31         |          |
|          |               | ( IC )                                     |             |              |                              | < SWITCH     | >                            |             |              |          |
| IC80     | 1 8-752-863-9 | 90 IC CXP82316-054Q                        |             |              |                              |              |                              |             |              |          |
| IC80:    | 2 8-759-995-0 | 09 IC MSM6338RS                            |             | S802         |                              |              | KEY BOARD (                  |             |              |          |
|          |               |  |             | S803         |                              |              | (EY BOARD (D                 |             |              |          |
|          |               | < TRANSISTOR >                             |             | S804         |                              |              | (EY BOARD (F                 |             |              |          |
|          |               |  |             | S805         |                              |              | KEY BOARD (▷<br>KEY BOARD (M |             |              |          |
| Q801     |               | 05 TRANSISTOR 2SC2603-EF                   |             | S806         | 1-554-937-                   | II OWIICH, I | עאאטע ופי                    | UUL)        |              |          |
| Q802     | 8-729-620-0   | 05 TRANSISTOR 2SC2603-EF                   |             | ł            |                              |              |                              |             |              |          |

## DISPLAY (A) DISPLAY (B) DRUM DRIVE

| Ref. No.     | Part No.                         | Descrip   | tion                           |   |              | Remark      | Ref. No.       | Dont No.                     | D                  | -1.41            |                   |                |              |              |
|--------------|----------------------------------|-----------|--------------------------------|---|--------------|-------------|----------------|------------------------------|--------------------|------------------|-------------------|----------------|--------------|--------------|
|              |                                  |           |                                | ·<br>•>                                 |              | NCMAI K     |                |                              |                    | ription          |                   |                |              | Remark       |
| S807<br>S811 | 1-554-937-11<br>1-554-937-11     |           |                                |   |              |             | *              | A-2007-419-                  | A DRUM             | DRIVE BO         | ARD, C            | OMPLET         | E.           |              |
| S812         | 1-554-937-11                     | SWITCH,   | KEY BOARD (                    | <b>&gt;&gt;</b> )                       |              |             | 1              |                              | ****               | ******           | *****             | *****          | *            |              |
| S813<br>S814 | 1-554-937-11<br>1-554-937-11     | SWITCH,   | KEY BOARD (                    | (REC ●)                                 |              |             | *              | 3-343-491-0                  | 1 HOLD             | ER (S SEN        | SOR B)            |                |              |              |
| 0014         | 1-004-501-11                     | . Switch, | AEI DUARD (                    |   |              |             | *              | 4-870-539-0                  | O PLAT             | E, GROUND        | ı                 |                |              |              |
| S815<br>S817 | 1-554-937-11                     | SWITCH,   | KEY BOARD (                    | REC MUT                                 | E <b>O</b> ) |             |                |                              | < CAI              | PACITOR >        |                   |                |              |              |
| S841         | 1-692-478-11<br>1-554-118-00     | SWITCH,   | PUSH (1 KEY                    | K)<br>)(POWER                           | )            |             | C01            | 1-126-176-1                  | i Di Dos           |                  | 000               | _              |              |              |
|              |                                  |           |                                | ) (1 O D.I.                             | ,            |             | C02            | 1-126-157-1                  |                    |                  | 220ı<br>10ul      |                | 20%<br>20%   | 10V<br>16V   |
|              |                                  | < VIBRA   | TOR >                          |   |              |             | C03            | 1-124-257-00                 |                    |                  | 2. 2ı             | ıF             | 20%          | 50V          |
| X801         | 1-577-359-21                     | VIBRATO   | R, CERAMIC (                   | 4.19MHz                                 | )            |             | C04<br>C05     | 1-164-161-11<br>1-164-161-11 | I CERAN<br>I CERAN | MIC CHIP         |                   | )22uF<br>)22uF | 10%<br>10%   | 100V<br>100V |
| *****        | ******                           | ******    | ******                         | ******                                  | *****        | ******      | C08            | 1-163-001-11                 | CERAN              | וור ראום         | 220F              | or<br>or       | 100          | FOV          |
| *            | 1 656 201 11                     | DICDIAV   | (D) DOIDD                      |   |              |             | C21            | 1-163-001-11                 | CERAN              | IIC CHIP         | 220F              |                | 10%<br>10%   | 50V<br>50V   |
| 7            | 1-656-331-11                     |           | (B) BUARD                      |   |              |             | C31<br>C32     | 1-163-001-11<br>1-164-232-11 | CERAN              | IIC CHIP         | 220F              | _              | 10%          | 50V          |
|              |                                  |           |                                |   |              |             | C32            | 1-164-232-11                 | . CERAM<br>. CERAM | IIC CHIP         | 0. 01<br>0. 1u    |                |              | 50V<br>25V   |
|              |                                  | < CAPAC   | ITOR >                         |   |              |             | C34            |                              |                    |                  |                   |                |              | 201          |
| C891         | 1-164-096-11                     | CERAMIC   | 0.0                            | luF                                     |              | 50 <b>V</b> | C35            | 1-163-038-91<br>1-163-038-91 |                    |                  | 0. 1u<br>0. 1u    |                |              | 25V<br>25V   |
|              |                                  | < IC >    |                                |   |              |             |                |                              | < CON              | NECTOR >         |                   | -              |              | 201          |
| 10001        | 0 741 010 00                     | 70 P11    | CHENT DAY OF                   |   |              | (-)         |                |                              |                    |                  |                   |                |              |              |
| 10091        | 8-741-810-59                     | IC ELI    | emeni, Ray-Cai                 | CHER SE                                 | 3X1810-      | 59 (IRJ)    | CN01<br>* CN02 | 1-691-459-21                 | PIN,               | CONNECTOR        | (PC B             | OARD)          | 3P           |              |
|              |                                  | < RESIST  | TOR >                          |   |              | İ           | * CN02         | 1-564-704-11<br>1-564-338-00 | PIN.               | CONNECTOR        | (SMAL)            | LIYPE          | ) ZP         |              |
| R822         | 1 240 415 11                     | CADDON    | 000                            |   | <b>.</b>     | _           | * CN04         | 1-564-336-00                 | PIN,               | CONNECTOR        | 2P                |                |              |              |
| R823         | 1-249-415-11<br>1-249-417-11     |           | 680<br>1K                      | 5%<br>5%                                | 1/4W<br>1/4W |             | * CN06         | 1-564-339-00                 | PIN,               | CONNECTOR        | 5P                |                |              |              |
| R824         | 1-249-419-11                     |           |                                | 5%                                      |              | F F         | CN07           | 1-564-721-11                 | PIN (              | ONNECTOD         | (CMAII            | TVDD           | ) ED         |              |
| R825         | 1-249-423-11                     |           |                                | 5%                                      | 1/4₩         |             | * CN08         | 1-568-873-11                 | SOCKE:             | CONNECTOR        | (SMAL)<br>TOR 311 | . IIPE         | ) 5P         |              |
| R826         | 1-249-425-11                     | CARBON    | 4. 7K                          | 5%                                      | 1/4W         | F           | * CN09         | 1-564-706-11                 | PIN, (             | CONNECTOR        | (SMALI            | TYPE           | ) 4P         |              |
| R827         | 1-249-429-11                     |           | 10K                            | 5%                                      | 1/4W         |             | * CN10         | 1-564-719-11                 | PIN, (             | CONNECTOR        | (SMALI            | TYPE           | ) 3P         |              |
| R828<br>R837 | 1-249-435-11<br>1-249-433-11     |           | 33K                            | 5%                                      | 1/4W         |             |                |                              | < IC >             | •                |                   |                |              |              |
| R838         | 1-249-435-11                     |           | 22K<br>33K                     | 5%<br>5%                                | 1/4W<br>1/4W |             | IC01           | 8-752-060-73                 | 10 (               | 2001151          |                   |                |              |              |
|              |                                  |           | ***                            | • | -/ *"        | ĺ           | IC02           | 8-759-502-80                 |                    | X20115A<br>M358M |                   |                |              |              |
|              |                                  | < SWITCH  | <b> </b> >                     |   |              | İ           | IC03           | 8-759-502-80                 |                    | M358M            |                   |                |              |              |
| S821         | 1-554-937-11                     | SWITCH,   | KEY BOARD (A                   | UTO)                                    |              |             |                |                              | < JUMP             | ER RESIST        | ror >             |                |              |              |
| S822<br>S823 | 1-554-937-11                     | SWITCH,   | KEY BOARD (R                   | ENUMBER)                                | )            | ĺ           |                |                              |                    |                  |                   |                |              |              |
|              | 1-554-937-11<br>1-554-937-11     | SWITCH    | KEY BOARD (K                   | EHEAKSAI                                | L)           |             | JW04           | 1-216-296-00                 | METAL              | CHIP             | 0                 | <b>5%</b>      | 1/8 <b>W</b> |              |
|              | 1-554-937-11                     | SWITCH.   | KEY BOARD (E                   | RASE)                                   |              |             | J₩06<br>J₩07   | 1-216-296-00<br>1-216-296-00 | METAL              | CHIP             | 0                 | 5%             | 1/8W         |              |
|              |                                  |           |                                |   |              | ļ           | JW08           | 1-216-296-00                 | METAL<br>METAL     | CHID             | 0<br>0            | 5%<br>5%       | 1/8W         |              |
| S826         | 1-554-937-11                     | SWITCH,   | KEY BOARD (MA                  | ARGINE F                                | RESET)       |             | JW09           | 1-216-296-00                 | METAL              | CHIP             | 0                 | 5%             | 1/8₩<br>1/8₩ |              |
| S827<br>S831 | 1-572-268-11                     | SWITCH, S | SLIDE (REC M                   | ODE)                                    | 4\           | 1           |                |                              |                    |                  | •                 | 0.4            | 1/ 01        |              |
| S837         | 1-554-937-11 :<br>1-572-268-11 : | SWITCH, 1 | STIDE (INDUL)<br>VEI ROWKD (OI | ren/CLOS                                | )<br>보 (스)   | İ           | J\\10          | 1-216-296-00                 | METAL              | CHIP             | 0                 | 5%             | 1/8₩         |              |
|              |                                  |           |                                |   |              | - 1         | J₩11<br>J₩13   | 1-216-296-00<br>1-216-296-00 | METAL (            | CHIP             | 0                 | 5%             | 1/87         |              |
| ******       | *********                        | ******    | *******                        | *****                                   | *****        | *****       | JW14           | 1-216-296-00                 | METAL (            | CHIP             | 0                 | 5%<br>5%       | 1/8₩<br>1/8₩ |              |
|              |                                  |           |                                |   |              |             | JW15           | 1-216-296-00                 | METAL (            | CHIP             | 0                 | 5%             | 1/8\<br>1/8\ |              |
|              |                                  |           |                                |   |              |             | JW17           | 1-216-296-00                 | METAL (            | CHIP             | 0                 | 5%             | 1/8\         |              |
|              |                                  |           |                                |   |              |             | JW19           | 1-216-296-00 !               | METAL (            | CHIP             | 0                 | 5%             | 1/8          |              |
|              |                                  |           |                                |   |              |             | J\21           | 1-216-296-00                 | METAL (            | CHIP             | 0                 | 5%             | 1/8\         |              |
|              |                                  |           |                                |   |              | ı           | JW22           | 1-216-296-00 1               | METAL (            | CHIP             | 0                 | 5%             | 1/8\         |              |

DRUM DRIVE | HEADPHONE | MAIN

| Ref. No.     | Part No.                     | Description                   | <u>!</u>                     |          |              | Remark | Ref. No.      | Part No.                     | Description                      |                          |          | Remark       |
|--------------|------------------------------|-------------------------------|------------------------------|----------|--------------|--------|---------------|------------------------------|----------------------------------|--------------------------|----------|--------------|
| JW23         | 1-216-296-00                 | METAL CHIP                    | 0                            | 5%       | 1/8₩         |        | *             | 1-656-334-11                 | HEADPHONE BOA                    |                          |          |              |
| J₩24<br>J₩25 | 1-216-296-00<br>1-216-296-00 | METAL CHIP                    | 0                            | 5%<br>5% | 1/8W<br>1/8W |        |               |                              | < CAPACITOR >                    |                          |          |              |
| J₩26<br>J₩27 | 1-216-296-00<br>1-216-296-00 |                               | 0<br>0                       | 5%<br>5% | 1/8₩<br>1/8₩ |        | C681          | 1-126-024-11                 | ELECT                            | 220uF                    | 20%      | 25V          |
| JW28         | 1-216-296-00                 |                               | Ŏ                            | 5%       | 1/8W         |        | C682          | 1-126-024-11                 | ELECT                            | 220uF                    | 20%      | 25V          |
| JW29         | 1-216-296-00                 |                               | 0                            | 5%<br>5% | 1/8W<br>1/8W |        |               |                              | < CONNECTOR >                    | •                        |          |              |
| J₩31<br>J₩32 | 1-216-296-00<br>1-216-296-00 |                               | 0<br>0                       | 5%       | 1/8W         |        | CN652         | 1-564-510-11                 | PLUG (MICRO (                    | CONNECTOR)               | 6P       |              |
| J₩33         | 1-216-296-00<br>1-216-296-00 |                               |                              | 5%<br>5% | 1/8W<br>1/8W |        |               |                              | < IC >                           |                          |          |              |
| J₩34         |                              |                               |                              |          | ·            |        | 10001         | 0 750 624 50                 |                                  |                          |          |              |
| J₩35<br>J₩36 | 1-216-296-00<br>1-216-296-00 |                               |                              | 5%<br>5% | 1/8\<br>1/8\ |        | 10081         | 8-759-634-50                 | IC M5210AL                       |                          |          |              |
| J₩37         | 1-216-296-00                 |                               |                              | 5%       | 1/8W         |        |               |                              | < JACK >                         |                          |          |              |
|              |                              | < PHOTO IN                    | TERUPTER >                   |          |              |        | J601          | 1-770-904-11                 | JACK (LARGE )                    | TYPE) (PHONE             | S)       |              |
| PH01<br>PH02 | 8-719-939-23<br>8-719-939-23 |                               | P-2S09-C (TA<br>P-2S09-C (SU |          |              |        |               |                              | < RESISTOR >                     |                          |          |              |
| FNUZ         | 0-115-555 2                  |                               |                              |          | ,            |        | R231          | 1-249-435-11                 |                                  | 33K 5<br>4.7K 5          |          | /4W<br>/4W F |
|              |                              | < TRANSIST                    | OR >                         |          |              |        | R232<br>R233  | 1-249-425-11<br>1-249-431-11 |                                  |                          |          | 4m r<br>/4W  |
| Q01          | • . • •                      | 8 TRANSISTOR                  |                              |          |              |        | R234          | 1-247-807-31                 | -                                |                          |          | /4W<br>/4W   |
| Q02          | 8-729-101-0                  | 7 TRANSISTOR                  | R 2SB798-D                   | L        |              |        | R281          | 1-249-435-11                 | CARBON                           | 33K 5                    | O76 1,   | 411          |
|              |                              | < RESISTOR                    | ₹ >                          |          |              |        | R282<br>R283  | 1-249-425-11<br>1-249-431-11 |                                  | 4.7K S                   |          | /4W F<br>/4W |
| R01          | 1-216-061-0                  | O METAL CHIE                  | 3. 3K                        | 5%       | 1/10         | W      | R284          | 1-247-807-31                 | CARBON                           | 100                      |          | / <b>4</b> ₩ |
| R02          |                              | O METAL CHIE                  |                              | 5%<br>5% | 1/10<br>1/10 |        | <u>↑</u> R691 | 1-202-857-11                 | THERMISTOR, THERMISTOR,          | POSITIVE :<br>POSITIVE : | 33<br>33 |              |
| R03<br>R04   |                              | O METAL CHIE<br>O METAL CHIE  |                              |          | 1/10         |        | 777/1032      | 1 202 001 11                 |                                  |                          |          |              |
| R05          |                              | O METAL CHIE                  |                              | 5%       | 1/10         | W      |               |                              | < VARIABLE R                     | ESISTOR >                |          |              |
| R06          | 1-216-085-0                  | 0 METAL CHII                  | P 33K                        | 5%       | 1/10         | )₩     | RV651         | 1-223-620-11                 | RES, VAR, CA                     | RBON 20K/2               | OK (PHO  | NE LEVEL)    |
| R07          | 1-216-025-9                  | 1 METAL GLAZ                  | ZE 100                       | 5%       | 1/10         |        |               |                              |                                  |                          | ******   | ****         |
| R08          |                              | 1 METAL GLAZ<br>10 METAL CHII |                              | 5%<br>5% | 1/10<br>1/10 |        | ******        | ***********                  | **********                       | ******                   | *****    | ****         |
| R09<br>R10   |                              | O METAL CHI                   |                              | 5%       | 1/10         |        | *             | A-2007-386-A                 | MAIN BOARD,                      |                          |          |              |
| D11          | 1 010 072 0                  | 0 METAL CHI                   | P 10K                        | 5%       | 1/10         | )W     |               |                              | ********                         | *******                  | ***      |              |
| R11<br>R12   | 1-216-073-0                  | O METAL CHI                   | P 10K                        | 5%       | 1/10         |        | *             | A-2007-389-A                 | MAIN BOARD,                      | COMPLETE (               | CND)     |              |
| R13          | 1-216-073-0                  | O METAL CHI                   | P 10K                        | 5%       | 1/10         |        |               |                              | *********                        | *******                  | ****     |              |
| R14          |                              | O METAL CHI                   |                              | 5%       | 1/10         |        | 1.            | A_2007_300_                  | A MAIN BOARD,                    | COMPLETE (               | AFP G)   |              |
| R21          | 1-216-073-0                  | 00 METAL CHI                  | P 10K                        | 5%       | 1/10         | JĦ     | *             | A-2001-350-1                 | **********                       |                          |          |              |
| R22          | 1-216-081-0                  | 00 METAL CHI                  | P 22K                        | 5%       | 1/10         |        | Ì.            | 1 500 010 0                  | HOLDED EHOL                      | ,                        |          |              |
| R23          | 1-216-077-0                  | 0 METAL CHI                   | P 15K                        | 5%       | 1/10         |        | *             |                              | 1 HOLDER, FUSE<br>1 TERMINAL BOA |                          |          |              |
| R24          | 1-216-069-0                  | O METAL CHI                   | P 6.8K                       |          | 1/10<br>1/10 |        | *             |                              | 1 HEAT SINK, V                   |                          |          |              |
| R25<br>R26   |                              | 91 METAL GLA<br>00 METAL CHI  |                              | 5%<br>5% | 1/10         |        | •             |                              | 9 SCREW +B 3X8                   |                          |          |              |
| KBO          |                              |                               |                              |          |              |        | }             |                              | / CADACTTOD                      |                          |          |              |
| R31          | 1-216-073-0                  | 00 METAL CHI                  | P 10K                        | 5%<br>5% | 1/10<br>1/10 |        |               |                              | < CAPACITOR                      | /                        |          |              |
| R32          |                              | 00 METAL CHI<br>91 METAL GLA  |                              | 5%<br>5% | 1/10         |        | C101          | 1-124-477-1                  | 1 ELECT 4                        | 17uF 2                   | 0% 2     | :5V          |
| R35<br>R36   |                              | 91 METAL GLA<br>00 METAL CHI  |                              | 5%       | 1/1          |        | C102          | 1-162-286-3                  |                                  |                          |          | OV           |
| 1130         | 1 -710-003-0                 | O MATERIA CITA                | - 40 141                     |          | -, -         |        | C151          | 1-124-477-1                  | 1 ELECT                          |                          |          | 25V          |
| *****        | *******                      | *******                       | *******                      | *****    | ****         | ****** | C152          | 1-162-286-3                  | 1 CERAMIC                        | 220PF 1                  | .0% 5    | 50V          |
|              |                              |                               |                              |          |              |        |               |                              |                                  |                          |          | 6.4.         |

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

## MAIN

| Ref. No.                     | Part No.   | Description    | <u>n</u>                                |                      |                          | Remark | Ref. No.                     | Part No.                                     | Descripti          | <u>on</u>                      |              |                   | Remark |
|------------------------------|--|----------------|---|----------------------|--------------------------|--------|------------------------------|--|--------------------|--------------------------------|--------------|-------------------|--------|
| C201                         | 1-130-471-00   | MYLAR          | 0. 001uF                                | 5%                   | 50V                      |        | C433                         | 1-162-288-31                                 | CERAMIC            | 330PF                          | 10%          | 50 <b>V</b>       |        |
| C202<br>C203<br>C204<br>C205 | 1-110-341-11<br>1-110-341-11<br>1-130-471-00<br>1-130-479-00 | MYLAR<br>MYLAR | 330PF<br>330PF<br>0. 001uF<br>0. 0047uF | 5%<br>5%<br>5%<br>5% | 50V<br>50V<br>50V<br>50V |        | C439<br>C441<br>C442<br>C443 | 1-162-306-11<br>1-162-306-11<br>1-161-494-00 | CERAMIC<br>CERAMIC | 0. 01uF<br>0. 01uF<br>0. 022uF | 20%<br>20%   | 16V<br>16V<br>25V |        |
| C206                         | 1-124-443-00   |                | 100uF                                   | 20%                  | 107                      |        | C443                         | 1-162-301-11<br>1-124-907-11                 |                    | 0. 0015uF<br>10uF              | 20%<br>20%   | 16V<br>50V        |        |
| C207<br>C251                 | 1-162-302-11<br>1-130-471-00                                 |                | 0. 0022uF<br>0. 001uF                   | 30%<br>5%            | 16V<br>50V               |        | C445<br>C451                 | 1-162-306-11<br>1-162-306-11                 |                    | 0. 01uF<br>0. 01uF             | 20%<br>20%   | 16V<br>16V        |        |
| C252                         | 1-110-341-11   | MYLAR          | 330PF                                   | 5%                   | 50V                      |        | C452                         | 1-126-963-11                                 |                    | 4. 7uF                         | 20%          | 50V               |        |
| C253                         | 1-110-341-11   | MYLAR          | 330PF                                   | 5%                   | 50Y                      | İ      | C453                         | 1-124-907-11                                 |                    | 10uF                           | 20%          | 50V               |        |
| C254                         | 1-130-471-00   | MYLAR          | 0. 001uF                                | 5%                   | 50V                      |        | C454                         | 1-162-306-11                                 |                    | 0. 01uF                        | 20%          | 16V               |        |
| C255<br>C256                 | 1-130-479-00<br>1-124-443-00                                 |                | 0. 0047uF<br>100uF                      | 5%<br>20%            | 50V                      |        | C459                         | 1-162-306-11                                 |                    | 0.01uF                         | 20%          | 16V               |        |
| C257                         | 1-162-302-11   |                | 0. 0022uF                               | 30%                  | 10V<br>16V               |        | C471                         | 1-162-306-11                                 |                    | 0. 01uF                        | 20%          | 16V               |        |
| C302                         | 1-162-197-31   |                | 6. 8PF                                  | 10%                  | 50V                      |        | C481                         | 1-162-306-11                                 |                    | 0. 01uF                        | 20%          | 16V               |        |
| C304                         | 1-124-903-11   |                | luF                                     | 20%                  | 50V                      |        | C491                         | 1-162-290-31                                 |                    | 470PF                          | 10%          | 50V               |        |
|                              |  |                |   | 20%                  |                          |        | C492                         | 1-162-306-11                                 |                    | 0. 01uF                        | 20%          | 16 <b>V</b>       |        |
| C307                         | 1-164-159-11   |                | 0. 1uF                                  | 100                  | 50V                      | i      | C502                         | 1-162-294-31                                 |                    | 0.001uF                        | 10%          | 50 <b>V</b>       |        |
| C308<br>C309                 | 1-162-294-31   |                | 0. 001uF                                | 10%                  | 50V                      |        | C503                         | 1-162-284-31                                 |                    | 150PF                          | 10%          | 50V               |        |
| C310                         | 1-124-443-00   | -              | 100uF                                   | 20%                  | 10V                      |        | C507                         | 1-136-153-00                                 |                    | 0. 01uF                        | 5%           | 50 <b>V</b>       |        |
| C311                         | 1-164-159-11<br>1-162-198-31                                 |                | 0. 1uF                                  | 1.00/                | 50V                      |        | C509                         | 1-164-159-11                                 |                    | 0. luF                         |              | 50V               |        |
|                              |  |                | 8. 2PF                                  | 10%                  | 50V                      |        | C511                         | 1-164-159-11                                 |                    | 0. 1uF                         |              | 50V               |        |
| C312                         | 1-162-199-31   |                | 10PF                                    | 5%                   | 50V                      |        | C515                         | 1-136-169-00                                 |                    | 0. 22uF                        | 5%           | 50V               |        |
| C313                         | 1-162-197-31   |                | 6. 8PF                                  | 10%                  | 50 <b>V</b>              |        | C601                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C314                         | 1-162-197-31   |                | 6. 8PF                                  | 10%                  | 50V                      | 1      | C602                         | 1-136-165-00                                 |                    | 0. luF                         | 5%           | 50V               |        |
| C327                         | 1-162-198-31   |                | 8. 2PF                                  | 10%                  | 50V                      |        | C627                         | 1-126-941-11                                 | ELECT              | 470uF                          | 20%          | 6.3V              |        |
| C330                         | 1-162-215-31   | CERAMIC        | 47PF                                    | 5%                   | 50V                      |        | C651                         | 1-136-165-00                                 | FILM               | 0. 1uF                         | 5 <b>%</b>   | 50V               |        |
| C331                         | 1-162-306-11   | CERAMIC        | 0. 01uF                                 | 20%                  | 16V                      |        | C652                         | 1-136-165-00                                 | FILM               | 0. luF                         | 5 <b>%</b>   | 50V               |        |
| C332                         | 1-164-159-11   | CERAMIC        | 0. 1uF                                  |                      | 50V                      |        | C653                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C333                         | 1-162-211-31   |                | 33PF                                    | 5%                   | 50V                      |        | C654                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C334                         | 1-124-907-11   | ELECT          | 10uF                                    | 20%                  | 50V                      |        | C661                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5 <b>%</b>   | 50V               |        |
| C335                         | 1-162-306-11   | CERAMIC        | 0. 01uF                                 | 20%                  | 16V                      |        | C662                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C336                         | 1-164-159-11   |                | 0. 1uF                                  |                      | 50V                      |        | C663                         | 1-136-165-00                                 | FILM               | 0. 1uF                         | 5%           | 50V               |        |
| C337                         | 1-164-159-11   |                | 0. 1uF                                  |                      | 50V                      |        | C664                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C338                         | 1-164-159-11   |                | 0. 1uF                                  |                      | 50V                      | l      | C665                         | 1-136-165-00                                 | FILM               | 0. 1uF                         | 5%           | 50V               |        |
| C340                         | 1-164-159-11   |                | 0. 1uF                                  |                      | 50V                      |        | C666                         | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C341                         | 1-164-159-11   | CERAMIC        | 0. 1uF                                  |                      | 50V                      | ĺ      | C667                         | 1-136-165-00 1                               | FILM               | 0. 1uF                         | 5%           | 50V               |        |
| C342                         | 1-124-442-00   | ELECT          | 330uF                                   | 20%                  | 6. 3V                    | ]      | C668                         | 1-124-443-00 1                               | ELECT              | 100uF                          | 20%          | 10V               |        |
| C343                         | 1-162-294-31   | CERAMIC        | 0. 001uF                                | 10%                  | 50V                      | İ      |                              | 1-136-165-00                                 |                    | 0. 1uF                         | 5%           | 50V               |        |
| C344                         | 1-162-294-31   |                | 0. 001uF                                | 10%                  | 50V                      |        |                              | 1-124-443-00 H                               |                    | 100uF                          | 20%          | 10V               |        |
| C345                         | 1-162-294-31   | CERAMIC        | 0.001uF                                 | 10%                  | 50V                      |        |                              | 1-124-443-00 H                               |                    | 100uF                          | 20%          | 10V               |        |
| C351                         | 1-162-306-11   | CERAMIC        | 0. 01uF                                 | 20%                  | 16V                      |        |                              | 1-136-165-00 H                               |                    | 0. 1uF                         | 5 <b>%</b>   | 50V               |        |
| C352                         | 1-162-306-11   |                | 0. 01uF                                 | 20%                  | 16V                      |        | C673                         | 1-124-443-00 H                               | ELECT              | 100uF                          | 20%          | 10V               |        |
| C353                         | 1-162-294-31   |                | 0. 001uF                                | 10%                  | 50V                      |        |                              | 1-136-165-00 F                               |                    | 0. 1uF                         | 5%           | 50V               |        |
| C354                         | 1-164-159-11   |                | 0. 1uF                                  |                      | 50V                      | į      |                              | 1-136-165-00 F                               |                    | 0. 1uF                         | 5%           | 50V               |        |
| C355                         | 1-164-159-11   |                | 0. luF                                  |                      | 50V                      |        | C683                         | 1-136-165-00 F                               | ILM                | 0. 1uF                         | 5%           | 50V               |        |
| C356                         | 1-164-159-11   | CERAMIC        | 0. 1uF                                  |                      | 50V                      | f      |                              | 1-126-941-11 E                               |                    | 470uF                          | 20%          | 6. 3V             |        |
| C361                         | 1-162-302-11   | CERAMIC        | 0. 0022uF                               | 30%                  | 16V                      | ļ      | C901                         | 1-124-563-11 E                               | LECT               | 2200uF                         | 20%          | 25V               |        |
| C362                         | 1-162-302-11   | CERAMIC        |   |                      | 16V                      |        |                              | 1-126-939-11 E                               |                    |                                | 20%          | 25V<br>16V        |        |
| C431                         | 1-162-302-11   |                |   |                      | 16V                      | ł      |                              | 1-126-941-11 E                               |                    |                                | 20%          |                   |        |
| C432                         | 1-162-305-11   |                |   |                      | 16V                      |        |                              | 1-124-471-00 E                               |                    |                                | 20%          | 6. 3V<br>6. 3V    |        |
|                              |  |                |   |                      |                          | •      |                              | - 121 III 00 E                               |                    | TOOOUL                         | <b>4</b> ∪/0 | U. 0¥             |        |

### MAIN

| Ref. No.     | Part No.                     | Description  | 1          |           |             | Remark   | Ref. No.       | Part No.                     | Descr      | iption Remark                                 |
|--------------|------------------------------|--------------|------------|-----------|-------------|----------|----------------|------------------------------|------------|---|
| C905         | 1-124-919-11                 | ELECT        | 220uF      | 20%       | 63V         |          | D413<br>D421   | 8-719-200-82<br>8-719-200-82 |            |   |
| C906         | 1-124-122-11                 | ELECT        | 100uF      | 20%       | 50V         |          | D422           | 8-719-200-82                 |            |   |
| C907         | 1-162-306-11                 |              | 0. 01uF    | 20%       | 16V         |          | D501           | 8-719-045-72                 |            |   |
| C908         | 1-162-306-11                 |              | 0. 01uF    | 20%       | 16V         |          | D651           | 8-719-987-63                 |            |   |
| C910         | 1-124-564-11                 |              | 4700uF     | 20%       | 25V         |          |                |                              |            |   |
| C911         | 1-124-902-00                 | ELECT        | 0. 47uF    | 20%       | 50V         |          | D901           | 8-719-200-77                 | DIODE      | 10E2N   |
|              |                              |              |            |           |             |          | D902           | 8-719-200-77                 | DIODE      | 10E2N   |
| C912         | 1-126-942-61                 |              | 1000uF     | 20%       | 16V         |          | D903           | 8-719-200-77                 |            |   |
| C913         | 1-162-306-11                 |              | 0. 01uF    | 20%       | 16V         |          | D904           | 8-719-200-77                 |            |   |
| C920         | 1-124-564-11                 |              | 4700uF     | 20%       | 25V         |          | D905           | 8-719-312-47                 | DIODE      | RBA-406B                                      |
| C921         | 1-162-306-11                 |              | 0. 01uF    | 20%       | 16V         |          | 2000           | 0 710 000 00                 | D.T.O.D.D. | 11700   |
| C922         | 1-126-942-61                 | ELECT        | 1000uF     | 20%       | 16V         |          | D906           | 8-719-200-82                 |            |   |
| coop         | 1 100 200 11                 | CEDANIC      | 0. 01uF    | 20%       | 16V         |          | D907<br>D908   | 8-719-987-63<br>8-719-015-13 |            |   |
| C923<br>C951 | 1-162-306-11<br>1-124-903-91 |              | 1. OuF     | 20%       | 50V         |          | D908<br>D911   | 8-719-200-77                 |            |   |
| C931         | 1-124-503-51                 | ELEC1        | 1. Uur     | 2070      | (Suffix     | No12)    | D912           | 8-719-200-77                 |            |   |
| C998         | 1-164-159-11                 | CERAMIC      | 0. 1uF     |           | 50V         | 110. 12) | 5512           | 0 110 200 11                 | DIODL      | 10000   |
| C999         | 1-164-159-11                 |              | 0. 1uF     |           | 50V         |          | D913           | 8-719-200-77                 | DIODE      | 10E2N   |
|              | 1-104-664-11                 |              | 47uF       | 20%       | 16V         |          | D914           | 8-719-200-77                 |            |   |
|              |                              |              |            |           |             |          | D951           | 8-719-987-63                 |            |   |
| C1105        | 1-124-443-00                 | ELECT        | 100uF      | 20%       | 10V         |          | D1101          | 8-719-987-63                 | DIODE      | 1N4148M                                       |
| C1106        | 1-136-165-00                 | FILM         | 0. luF     | 5%        | 50V         |          | D1102          | 8-719-987-63                 | DIODE      | 1N4148M                                       |
| C1107        | 1-130-475-00                 | MYLAR        | 0.0022uF   | 5%        | 50 <b>V</b> |          |                |                              |            |   |
|              | 1-104-664-11                 |              | 47uF       | 20%       | 16V         |          |                | 8-719-987-63                 |            |   |
| C1154        | 1-104-664-11                 | ELECT        | 47uF       | 20%       | 16V         |          | D1152          | 8-719-987-63                 | DIODE      | 1N4148M                                       |
|              | 1-124-443-00                 |              | 100uF      | 20%       | 107         |          |                |                              | < FUS      | E >   |
|              | 1-136-165-00                 |              | 0. luF     | 5%        | 50V         |          |                |                              |            |   |
|              | 1-130-475-00                 |              | 0. 0022uF  | 5%        | 50V         |          | <u></u> ↑ F901 |                              |            | TIME-LAG (2. 5A 250V) (AEP, G)                |
|              | 1-104-664-11                 |              | 47uF       | 20%       | 16V         |          | <b>♠F901</b>   |                              |            | (2. 5A 250V) (US, CND)                        |
| C1622        | 1-136-165-00                 | FILM         | 0. luF     | <b>5%</b> | 50 <b>V</b> |          | <u></u> ∱F911  | 1-532-774-11                 | FUSE,      | MICRO (SECONDARY) (0.63A 125V)                |
| C1623        | 1-124-443-00                 | ELECT        | 100uF      | 20%       | 107         |          | <b>∱</b> F921  | 1-532-774-11                 | FUSE,      | (US, CND) MICRO (SECONDARY) (0. 63A 125V)     |
| C1626        | 1-136-165-00                 | FILM         | 0. luF     | 5%        | 50V         |          |                |                              |            | (US, CND)                                     |
| C1628        | 1-136-165-00                 |              | 0. luF     | 5%        | 50V         |          |                |                              |            |   |
| C1629        | 1-136-165-00                 |              | 0. 1uF     | 5%        | 50V         |          |                |                              | < IC       | >   |
| C1630        | 1-124-907-11                 | ELECT        | 10uF       | 20%       | 50V         |          |                |                              |            |   |
|              |                              | / COMMITTOTO | D \        |           |             |          |                | 8-759-256-59                 |            | HD74HC00FPEL                                  |
|              |                              | < CONNECTO   | κ >        |           |             |          |                | 8-759-701-01                 |            | NJM2904M                                      |
| + CN201      | 1-564-706-11                 | DIN CONNE    | CTOD (CMAI | ı TVI     | DE) AD      |          |                | 8-752-355-55<br>8-752-356-96 |            | CXD2605Q<br>CXK58257AM-10LL                   |
|              | 1-568-845-11                 |              |            |           | E) 41       |          | 10303          | 8-759-925-90                 |            | SN74HC74ANS                                   |
| * CN302      | 1-568-836-11                 |              |            |           |             |          | 10000          | 0 100 020 00                 | 10 1       | DIVI TILLI TAND                               |
| CN341        | 1-770-164-11                 |              |            |           | 15P         |          | IC308          | 8-759-634-43                 | IC i       | M51953BFP                                     |
| CN342        | 1-564-506-11                 |              |            | /         |             |          |                | 8-752-851-42                 |            | CXP87532-015Q                                 |
|              |                              | •            |            |           |             |          | IC317          | 8-759-070-64                 | IC         | CXK1024M-ME                                   |
| * CN401      | 1-564-339-00                 | PIN, CONNE   | CTOR 5P    |           |             |          |                | 8-759-242-84                 |            | TORX176 (OPTICAL IN)                          |
| * CN601      | 1-564-708-11                 | •            |            |           |             |          | IC332          | 8-759-242-85                 | IC '       | TOTX176 (OPTICAL OUT)                         |
| CN651        | 1-564-510-11                 | •            |            | •         |             |          |                |                              |            |   |
| CN901        | 1-691-767-11                 |              |            |           |             |          |                | 8-759-823-94                 |            | LB1836M                                       |
| CN902        | 1-691-768-11                 | PLUG (MICR   | U CUNNECTO | к) 6F     | ,           |          |                | 8-759-701-01                 |            | NJM2904M                                      |
|              |                              | < DIODE >    |            |           |             |          |                | 8-759-701-01                 |            | NJM2904M                                      |
|              |                              | ✓ DIONE >    |            |           |             |          |                | 8-759-701-01<br>8-759-242-70 |            | NJM2904M<br>rc7wu04f                          |
| D321         | 8-719-987-63                 | DIODE IN     | 4148M      |           |             |          | 10001          | 0 105-646-10                 | 10         | IOI NUUTE                                     |
| D331         | 8-719-987-63                 |              | 4148M      |           |             |          | IC601          | 8-759-602-83                 | TC I       | M5238P  |
| D333         | 8-719-987-63                 |              | 4148M      |           |             |          |                | 8-759-602-83                 |            | M5238P  |
| D411         | 8-719-200-82                 |              | ES2        |           |             |          |                | 8-759-094-53                 |            | TA7805S                                       |
| D412         | 8-719-200-82                 |              | ES2        |           |             |          |                | 8-759-900-72                 |            | NE5532P                                       |
|              |                              |              |            |           |             | i        |                |                              |            |   |
|              |                              |              |            |           |             |          | The comp       | onents identified            | by ma      |   |
|              |                              |              |            |           |             |          | critical for   | ed line with man             | K          | are marque A sont critiques pour la sécurité. |
|              |                              |              |            |           |             |          | Replace        | only with part               | numl       | per Ne les remplacer que par une piéce        |
|              |                              |              |            |           |             |          | specified.     |                              |            | portant le numéro spécifié.                   |
|              |                              |              |            |           |             |          |                |                              |            |   |

## MAIN MOTOR PRIMARY

| Ref. No.        | Part No.                     | Description        |           |            |               |   | Remark | Ref. No.      | Part No.                     | Description | <u>n</u>                  |                  |         |       | Remark     |
|-----------------|------------------------------|--------------------|-----------|------------|---------------|---|--------|---------------|------------------------------|-------------|---------------------------|------------------|---------|-------|------------|
| R472            | 1-249-441-11                 | CARBON             | 100K      | 5%         | 1/4W          |   |        | R999          | 1-247-739-11                 | CARBON      | 100                       | 5%               | 1/2W    | F     |            |
| R481            | 1-249-441-11                 |                    | 100K      |            | 1/4W          |   |        |               | 1-249-411-11                 |             | 330                       |                  | 1/4W    | •     |            |
| R482            | 1-249-401-11                 | CARBON             | 47        | <b>5%</b>  | 1/4W          | F |        |               | 1-249-425-11                 |             | 4.7K                      | 5%               | 1/4W    | F     |            |
| R483            | 1-249-437-11                 |                    | 47K       | 5%         | 1/4W          |   |        |               | 1-249-425-11                 |             | 4. 7K                     |                  | 1/4W    | F     |            |
| R484            | 1-249-437-11                 | CARBON             | 47K       | 5%         | 1/4W          |   |        | R1109         | 1-249-411-11                 | CARBON      | 330                       | 5 <b>%</b>       | 1/4W    |       |            |
| R485            | 1-249-441-11                 | CARBON             | 100K      | 5%         | 1/4W          |   |        | R1111         | 1-249-433-11                 | CARBON      | 22K                       | 5%               | 1/4W    |       |            |
| R491            | 1-249-417-11                 | CARBON             | 1K        | 5%         | 1/4₩          |   |        |               | 1-249-425-11                 |             | 4.7K                      | 5%               | 1/4W    | F     |            |
| R492            | 1-249-417-11                 |                    | 1K        | 5%         | 1/4W          |   |        |               | 1-249-425-11                 |             | 4.7K                      | 5%               | 1/4W    | F     |            |
| R493            | 1-249-407-11                 |                    | 150       | 5%         | 1/4₩          | F |        |               | 1-249-411-11                 |             | 330                       |                  | 1/4W    |       |            |
| R494            | 1-247-807-31                 | CARBON             | 100       | 5%         | 1/4W          |   |        | R1160         | 1-249-411-11                 | CARBON      | 330                       | 5%               | 1/4W    |       |            |
| R501            | 1-249-417-11                 | CARBON             | 1K        | 5%         | 1/4₩          | F |        | R1161         | 1-249-433-11                 | CARBON      | 22K                       | 5%               | 1/4W    |       |            |
| R502            | 1-249-429-11                 |                    | 10K       | 5%         | 1/4₩          |   |        | ì             | 1-249-421-11                 |             | 2. 2K                     |                  | 1/4W    | F     |            |
| R503            | 1-249-441-11                 | CARBON             | 100K      | 5%         | 1/4W          |   |        | R1601         | 1-249-429-11                 | CARBON      | 10K                       |                  | 1/4W    |       |            |
| R516            | 1-249-425-11                 | CARBON             | 4.7K      | 5%         | 1/4₩          |   |        |               |                              |             |                           |                  |         |       |            |
| R517            | 1-249-417-11                 | CARBON             | 1K        | 5 <b>%</b> | 1/ <b>4W</b>  | F |        |               |                              | < VARIABLE  | RESIST                    | OR >             |         |       |            |
| R518            | 1-249-401-11                 | CARBON             | 47        | 5%         | 1/4W          | F |        | RV451         | 1-241-765-11                 | RES, ADJ,   | CARBON 2                  | 22K              |         |       |            |
| R601            | 1-249-413-11                 |                    | 470       | <b>5%</b>  | 1/4W          | F |        |               |                              |             |                           |                  |         |       |            |
| R661            | 1-247-903-00                 |                    | 1M        | 5%         | 1/4W          |   |        |               |                              | < RELAY >   |                           |                  |         |       |            |
| R901            | 1-249-437-11                 |                    | 47K       | 5%         | 1/4W          | _ |        |               |                              |             |                           |                  |         |       |            |
| <u></u> 1. R902 | 1-212-873-11                 | FUSIBLE            | 47        | 5%         | 1/ <b>4</b> ₩ | F |        | RY651         | 1-515-803-11                 | RELAY       |                           |                  |         |       |            |
| R903            | 1-260-111-11                 | CARBON             | 10K       | 5%         | 1/2W          |   |        |               |                              | < VIBRATOR  | >                         |                  |         |       |            |
| R904            | 1-249-433-11                 | CARBON             | 22K       | 5%         | 1/4W          |   |        |               |                              |             |                           |                  |         |       |            |
| R905            | 1-249-425-11                 | CARBON             | 4.7K      | 5%         | 1/4W          | F |        | X301          |                              |             |                           |                  |         |       |            |
| R906            | 1-249-433-11                 |                    | 22K       | 5%         | 1/4W          |   |        |               | 1-567-815-11                 |             |                           |                  |         |       |            |
| R907            | 1-249-437-11                 | CARBON             | 47K       | 5%         | 1/4W          |   |        | X303          | 1-567-814-11                 | VIBRATOR,   | CRYSTAL                   | (24MHz           | )       |       |            |
| R908            | 1-249-441-11                 | CARBON             | 100K      | 5%         | 1/4₩          |   |        | ******        | ******                       | ******      | ******                    | *****            | *****   | ****  | *****      |
| R909            | 1-249-429-11                 | CARBON             | 10K       | 5%         | 1/4W          |   |        |               |                              |             |                           |                  |         |       |            |
| R910            | 1-249-437-11                 |                    | 47K       | 5%         | 1/4W          |   |        | *             | 1-655-913-11                 | MOTOR BOAR  | D                         |                  |         |       |            |
| R911            | 1-247-807-31                 |                    | 100       | 5%         | 1/4W          |   |        |               |                              | *******     | <b>*</b>                  |                  |         |       |            |
| R912            | 1-247-807-31                 | CARBON             | 100       | 5%         | 1/ <b>4W</b>  |   |        |               |                              | < CAPACITO  | D \                       |                  |         |       |            |
| R913            | 1-249-401-11                 | CARBON             | 47        | 5%         | 1/4₩          | F |        |               |                              | \ Chi hCIIO | . /                       |                  |         |       |            |
| R914            | 1-249-409-11                 |                    | 220       | 5%         | 1/4W          |   |        | C01           | 1-161-772-11                 | CERAMIC     | ٥.                        | 1uF              | 10%     | 2     | 5V         |
| R915            | 1-249-433-11                 | CARBON             | 22K       | 5%         | 1/4W          |   |        |               |                              |             | ٠.                        |                  | 10/4    | _     | 01         |
| R917            | 1-249-431-11                 | CARBON             | 15K       | 5%         | 1/4W          |   |        |               |                              | < CONNECTO  | ? >                       |                  |         |       |            |
| R918            | 1-249-425-11                 | CARBON             | 4. 7K     | 5%         | 1/4W          | F |        |               |                              |             |                           |                  |         |       |            |
| 2010            |                              | 0.10001            | 1017      |            |               |   |        | * CN1         | 1-564-498-11                 |             |                           |                  |         |       |            |
|                 | 1-249-429-11                 |                    | 10K       |            | 1/4W          |   |        | * CN2         | 1-564-337-00                 | PIN, CONNE  | CTOR 3P                   |                  |         |       |            |
| R920<br>R923    | 1-249-429-11<br>1-249-401-11 |                    | 10K<br>47 | 5%<br>5%   | 1/4W<br>1/4W  | Б |        |               |                              |             |                           |                  |         |       |            |
| R924            | 1-249-409-11                 |                    | 220       | 5%         | 1/4W          |   |        | *******       | **********                   | ******      | ******                    | *****            | *****   | ***   | *****      |
| R927            | 1-249-431-11                 |                    | 15K       | 5%         | 1/4W          | • |        | *             | 1-656-333-11                 | PRIMARY ROA | NDD                       |                  |         |       |            |
|                 |                              | <del>•</del> ••••• |           |            | -, •          |   |        | ·             |                              | ********    |                           |                  |         |       |            |
| <b></b> AR931   | 1-217-371-00                 |                    | 0. 47     | 5%         | 1/4W          |   |        |               |                              |             |                           |                  |         |       |            |
| R981            | 1-249-409-11                 |                    | 220       | 5%         | 1/4W          |   |        | *             | 3-346-266-12                 | PLATE, GROU | JND                       |                  |         |       |            |
| R982            | 1-249-409-11                 |                    | 220       | 5%         | 1/4W          |   |        |               |                              |             |                           |                  |         |       |            |
| R983            | 1-249-409-11                 |                    | 220       | 5%<br>5%   | 1/4W          |   |        |               |                              | < CAPACITOR | ? >                       |                  |         |       |            |
| R984            | 1-249-409-11                 | CARBON             | 220       | 5%         | 1/ <b>4W</b>  | r | 1      | <b>∆</b> C001 | 1_161_744_51                 | CEDAMIC     | 0                         | 01P              |         | ,     | 0011       |
| R985            | 1-249-409-11                 | CARBON             | 220       | 5%         | 1/4W          | F | İ      |               | 1-161-744-51<br>1-161-742-00 |             |                           | 01uF<br>0022uF   | 20%     |       | 00V<br>00V |
| R986            | 1-249-409-11                 |                    | 220       | 5%         | 1/4W          |   |        |               | 1-161-742-00                 |             |                           | 0022uF           |         |       | 00V        |
| R991            | 1-249-429-11                 |                    | 10K       | 5%         | 1/4W          | • |        |               | 1-161-742-00                 | _           |                           | 0022ur<br>0022uF |         |       | 00V<br>00V |
| R992            | 1-249-427-11                 |                    | 6. 8K     |            | 1/4W          | F | İ      |               | 1-161-742-00                 |             |                           | 0022uF           |         |       | 00V<br>00V |
| R998            | 1-249-409-11                 |                    | 220       | 5%         | 1/4₩          |   |        | =             | 34                           |             | ٠.                        |                  | _ 576   |       | AEP, G)    |
|                 |                              |                    |           |            |               |   | l      |               |                              |             |                           |                  |         |       | •          |
|                 |                              |                    |           |            |               |   | ſ      | The compo     | onents identified            | by mark L   | es comp                   | osants i         | dentifi | és na | r une      |
|                 |                              |                    |           |            |               |   |        | ♠ or dotte    | ed line with mar             | k Δ∆ are n  | narque Z                  | <b>∆</b> sont    | critiqu | es po | our la     |
|                 |                              |                    |           |            |               |   |        | critical for  | safety.<br>only with part    | s           | écurité.                  |                  |         |       |            |
|                 |                              |                    |           |            |               |   | - 1    | specified.    | nny with part                |             | le les ren<br>ortant le i |                  |         |       | piece      |
|                 |                              |                    |           |            |               |   | Ĺ      |               |                              | IP          | oreant 10 I               | - Interest       | pecini  | ··    |            |

## PRIMARY REC VOL REEL MOTOR RF AMP

| Ref. No.      | Part No.                     | Description                             |                   |              | Remark       | Ref. No.   | Part No.                     | Description                 |                |               | Remark      |
|---------------|------------------------------|---|-------------------|--------------|--------------|------------|------------------------------|-----------------------------|----------------|---------------|-------------|
|               |                              | < CONNECTOR >                           |                   |              |              | C16        | 1-163-038-91                 | CERAMIC CHIP                | 0. 1uF         |               | 25V         |
|               |                              | COMMECTOR >                             |                   |              |              | C17        |                              | CERAMIC CHIP                | 220PF          | 10%           | 50V         |
| CN001         | 1-580-230-11                 | PIN, CONNECTOR                          | (PC BOARD)        | 2P           |              | C18        |                              | CERAMIC CHIP                | 100PF          | 5%            | 50V         |
| CN002         | 1-564-321-00                 | PIN, CONNECTOR                          | 2P                |              |              | C19        |                              | CERAMIC CHIP                | 220PF          | 10%           | 50V         |
|               |                              | < COIL >                                |                   |              |              | C20        | 1-164-182-11                 | CERAMIC CHIP                | 0. 0033u       | F 10%         | 50V         |
|               |                              | COIL >                                  |                   |              |              | C21        | 1-163-005-11                 | CERAMIC CHIP                | 470PF          | 10%           | 50V         |
| <b>∆</b> L001 | 1-424-485-11                 | FILTER, LINE                            |                   |              |              | C22        | 1-126-603-11                 |                             | 4. 7uF         | 20%           | 35V         |
|               |                              |   |                   |              |              | C23        |                              | CERAMIC CHIP                | 100PF          | 5%            | 50V         |
| ******        | *********                    | **********                              | *******           | *****        | ******       | C24<br>C25 | 1-163-038-91                 | CERAMIC CHIP                | 0. 1uF<br>22uF | 20%           | 25V<br>6.3V |
| *             | 1-656-332-11                 | REC VOL BOARD                           |                   |              |              | 020        | 1 151 110 00                 | BBBCT CITT                  | Duar           | 20%           | 0. 01       |
|               |                              | *******                                 |                   |              |              | C26        |                              | CERAMIC CHIP                | 0. 1uF         |               | 25V         |
|               |                              | ( CONTIDOMOD )                          |                   |              |              | C27<br>C28 |                              | CERAMIC CHIP                | 1uF<br>2, 2uF  | 10%           | 16V         |
|               |                              | < CONNECTOR >                           |                   |              |              | C28        | 1-104-505-11                 | CERAMIC CHIP                | Z. Zur         |               | 16V         |
| * CN602       | 1-564-708-11                 | PIN, CONNECTOR                          | (SMALL TYP        | E) 6P        |              |            |                              | < CONNECTOR >               |                |               |             |
|               |                              | < RESISTOR >                            |                   |              |              | * CN51     |                              | PIN, CONNECTO               | •              | •             |             |
|               |                              | 01PP011                                 | 0517 54/          | 1 / / 177    |              | * CN52     | 1-564-720-11                 | PIN, CONNECTO               | R (SMALL T     | YPE) 4P       |             |
| R101<br>R151  | 1-249-434-11<br>1-249-434-11 |   | 27K 5%<br>27K 5%  | 1/4W<br>1/4W |              |            |                              | < IC >                      |                |               |             |
|               |                              | < VARIABLE RES                          | ISTOR >           |              |              | IC1        | 8-752-039-01                 | IC CXA1364R                 |                |               |             |
| RV101         | 1-241-937-11                 | RES, VAR, CARBO                         | ON 20K/20K        | (REC LE      | EVEL)        |            |                              | < COIT >                    |                |               |             |
| ******        | *******                      | *****                                   | ******            | *****        | ******       | Ll         |                              | INDUCTOR CHIP               |                |               |             |
| •             | 1_620_204_14                 | REEL MOTOR BOAL                         | חכ                |              |              | L2<br>L3   |                              | INDUCTOR CHIP INDUCTOR CHIP |                |               |             |
| *             | 1-039-304-14                 | *************                           |                   |              |              | Lo         | 1-406-761-00                 | INDUCTOR CHIP               | ZZUN           |               |             |
|               |                              | *************************************** |                   |              |              |            |                              | < RESISTOR >                |                |               |             |
|               |                              | < CAPACITOR >                           |                   |              |              | D1         | 1 010 000 00                 | METAL CLASE                 | 0.47 5         | V 1/1/        | NIII        |
| C07           | 1-163-077-91                 | CERAMIC CHIP                            | 0. 1uF            |              | 50V          | R1<br>R2   | 1-216-082-00<br>1-216-082-00 |                             | 24K 5          |               |             |
| COT           | 1 103 017 31                 | CEMMINIC CITT                           | 0. 1ui            |              | 001          | R3         | 1-216-066-00                 |                             | 5. 1K 5        |               |             |
| ******        | *********                    | *******                                 | ********          | *****        | ******       | R4         | 1-216-066-00                 |                             | 5. 1K 5        |               |             |
| *             | A 2006 AEE A                 | RF AMP BOARD, (                         | OMDI ETE          |              |              | R5         | 1-216-077-00                 | METAL CHIP                  | 15K 5          | 1/10          | ) <b>W</b>  |
| •             | A-2000-455-8                 | ************                            |                   |              |              | R6         | 1-216-077-00                 | METAL CHIP                  | 15K 5          | % 1/10        | )W          |
|               |                              |   |                   |              |              | R7         | 1-216-077-00                 |                             | 15K 5          |               |             |
|               |                              | < CAPACITOR >                           |                   |              |              | R8         | 1-216-079-00                 | METAL CHIP                  | 18K 5          | 1/10          | )₩          |
| ,<br>(1)      | 1 104 570 00                 | DIFOT CHID                              | 00F               | 000          | C DV         | R9         | 1-216-075-00                 |                             | 12K 5          |               |             |
| C1<br>C2      | 1-124-778-00                 | CERAMIC CHIP                            | 22uF<br>0. 0068uF | 20%<br>10%   | 6. 3V<br>50V | R10        | 1-216-079-00                 | METAL CHIP                  | 18K 5          | 1/10          | ) N         |
| C3            |                              | CERAMIC CHIP                            | 100PF             | 5%           | 50V          | R11        | 1-216-077-00                 | METAL CHIP                  | 15K 5          | <b>%</b> 1/10 | )₩          |
| C4            |                              | CERAMIC CHIP                            | luF               | 10%          | 16V          | R12        | 1-216-077-00                 |                             | 15K 5          |               |             |
| C5            | 1-164-299-11                 | CERAMIC CHIP                            | 0. 22uF           | 10%          | 25V          | R13        | 1-216-077-00                 | METAL CHIP                  | 15K 5          | <b>%</b> 1/10 | )₩          |
|               |                              |   |                   |              |              | R14        | 1-216-081-00                 |                             | 22K 5          |               |             |
| C6            | -                            | CERAMIC CHIP                            | 0. 1uF            | 10%          | 25V          | R15        | 1-216-085-00                 | METAL CHIP                  | 33K 5          | 1/10          | )₩          |
| C7<br>C8      | 1-163-009-11                 | CERAMIC CHIP                            | 0. 001uF<br>22uF  | 10%<br>20%   | 50V<br>6. 3V | R16        | 1-216-089-00                 | METAL CUID                  | 47K 5          | <b>%</b> 1/10 | 100         |
| C9            | 1-124-778-00                 |   | 22uF              | 20%          | 6. 3V        | R17        | 1-216-089-00                 |                             | 20K 5          |               |             |
| C10           |                              | CERAMIC CHIP                            | 0.001uF           | 10%          | 50V          | R18        | 1-216-073-00                 |                             | 10K 5          |               |             |
| C11           | 1-164-004-11                 | CERAMIC CHIP                            | 0. 1uF            | 10%          | 25 <b>V</b>  |            |                              | < VARIABLE RE               |                |               |             |
| C12           | -                            | CERAMIC CHIP                            | 0. 22uF           | 10%          | 25V          |            |                              |                             | ,              |               |             |
| C13           |                              | CERAMIC CHIP                            | luF               | 10%          | 16 <b>V</b>  | RV1        |                              | RES, ADJ, CER               |                |               |             |
| C14           | -                            | CERAMIC CHIP                            | 100PF             | 5%           | 50 <b>V</b>  | RV2        | 1-238-181-11                 | RES, ADJ, CER               | MET 4.7K       |               |             |
| C15           | 1-124-778-00                 | ELECT CHIP                              | 22uF              | 20%          | 6. 3V        | l          |                              |                             |                |               |             |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la

Ne les remplacer que par une piéce portant le numéro spécifié.

## RGN SW SW TOP END SENSOR

| Ref. No.                              | Part No.                                     | <u>Description</u> <u>Remark</u>   | Ref. No.                        | Part No.                     | Descripti  | on   | Remark               |
|---------------------------------------|--|--|---------------------------------|------------------------------|--|--|----------------------|
| *******<br>*                          |  | **************************************   | RV101<br><u>↑</u> T901          | 1-427-889-11                 | RES, VAR,<br>TRANSFORM                                 | PLUNGER CARBON 20K/20K (REC IER, POWER (US, CND) IER, POWER (AEP, G)   | LEVEL)               |
|                                       |  | < SWITCH >   | ******                          | ********                     | *******  | *************  | ******               |
| S01                                   | 1-571-878-11                                 | SWITCH, PUSH (2 KEY) (CASSETTE IN, REC PROOF)  |                                 |                              |  | G MATERIALS  |                      |
| ******                                | *******                                      | ********************************   |                                 |                              |  | MMANDER (RM-D9)  |                      |
| *                                     | 1-655-916-11                                 | SW BOARD ********  | *                               | 3-384-415-01<br>3-798-560-11 | CUSHION MANUAL, I                                      | NECTION (AUDIO 108cm)<br>NSTRUCTION<br>CH, SPANISH, PORTUGUESE   |                      |
|                                       | •  | < SWITCH >   |                                 |                              |  |  |                      |
| S1<br>S2                              |  | SWITCH, PUSH (1 KEY) (CASSETTE TABLE IN)<br>SWITCH, PUSH (1 KEY) (CASSETTE TABLE OUT)  |                                 |                              | MANUAL, I  | NSTRUCTION (ENGLISH)(<br>NSTRUCTION (GERMAN)(C<br>NSTRUCTION<br>MAN, DUTCH, SWEDISH, ITA                                 | i)                   |
| ******                                | *********                                    | ************************   | *                               | 3-926-367-01<br>4-962-615-01 | INDIVIDUA  |  | , , , , ,            |
| *                                     | 1-639-305-11                                 | TOP END SENSOR BOARD   | ******                          |                              |  | **********   | *****                |
| *                                     |  | HOLDER (END SENSOR LIGHT)<br>HOLDER (END SENSOR) (RECIEVE)   |                                 |                              | HARDWA   | *********<br>ARE LIST<br>********  |                      |
|                                       |  | < DIODE >  | #1                              | 7-682-548-09                 |  |  |                      |
| D01                                   |  | DIODE GL453S < PHOTO INTERUPTER >  | #1<br>#2<br>#3<br>#4<br>#5      | 7-685-645-79                 | SCREW +BV' SCREW +BV' SCREW +BV'                       | TP 3X6 TYPE2 IT-3<br>P 2.6X8 TYPE2 N-S<br>TT 3X6 (S)   |                      |
| PH03<br>PH04                          | 8-729-907-25<br>8-729-907-25                 |  | #6<br>#7                        | 7-627-854-07                 | PRECISION  | SCREW +P 2X2.5 TYPE3<br>2X4 TYPE2 NON-SLIT   |                      |
| ******                                | ******                                       | ************************************   | #8<br>#9                        |                              | SCREW +BTI   | P 2. 6X6 TYPE2 N-S   |                      |
|                                       |  | MISCELLANEOUS **************   | #10                             | 7-627-852-27                 | +P 1.7X3   |  |                      |
| ⚠2                                    | 1-590-836-11<br>1-775-464-11<br>1-775-389-11 | CORD, POWER (AEP, G) CORD, POWER (US, CND) WIRE (FLAT TYPE) (17 CORE) WIRE (FLAT TYPE) (31 CORE) HOLDER, FUSE                | #11<br>#12<br>#13<br>#14<br>#15 | 7-627-552-27                 | SCREW +P 2<br>SCREW +B 2<br>SCREW, PREC<br>SCREW, PREC | 2X3<br>2.6X4<br>CISION +P 2.6X3 TYPE1<br>CISION +P 1.7X2   |                      |
| 112<br>325<br>∱F901<br>∱F901<br>FL801 | 8-848-567-11<br>1-532-286-00<br>1-576-105-11 | TERMINAL BOARD, GROUND DRUM ASSY DOU-03A FUSE (T2. 5A 250V) (AEP, G) FUSE (2. 5A 250V) (US, CND) INDICATOR TUBE, FLUORESCENT | #16<br>#17<br>#18<br>#19<br>#20 | 7-621-255-20<br>7-685-133-19 | SCREW, PREC<br>SCREW +BVT<br>SCREW +BTF                | CISION +P 1.7X4  |                      |
| M901<br>M902<br>M903<br>M905<br>PM902 | X-3363-109-1<br>X-3363-110-2                 | MOTOR ASSY MOTOR, DC U-17B (CAPSTAN) MOTOR (CAM) ASSY MOTOR (REEL) ASSY SOLENOID, PLUNGER                                    | ⚠ or dot critical fo            | only with par                | rk <u>/</u> are<br>t number                            | Les composants identific<br>marque A sont critiqu<br>sécurité.<br>Ne les remplacer que par<br>portant le numéro spécific | es pour la une piéce |

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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# DTC-790

## SERVICE MANUAL

US Model Canadian Model AEP Model

## **SUPPLEMENT-1**

File this supplement with the service manual.

**Subject: 1. Correction** 

2. Parts changed

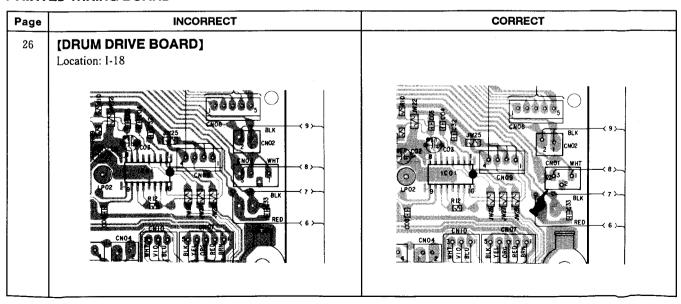
3. Board change

(ECN-TC500608/TC500800)

#### 1. Correction

: Indicates corrected portion

#### PRINTED WIRING BOARD



#### **EXPLODED VIEWS**

| Page |                 | INCORRECT      |        |         |                | CORRECT              |                             |
|------|-----------------|----------------|--------|---------|----------------|----------------------|-----------------------------|
|      | Ref. No Part No | Description    | Remark | Ref. No | <u>Part No</u> | Description          | Remark                      |
| 46   | 205 3-373-234-  | 05 CHASSIS (L) |        | 205     | A-2004-153     | B-E CHASSIS (L) ASSY |                             |
|      | 206             | M901           | 208    | 203     | 206            | M901                 | 208  208  out supplied  205 |

#### 2. PARTS CHANGED

• Revise your service manual as shown below due to parts supply classification has been changed.

| Page |         | CURRENT                               |        |         | REVISED                        |               |
|------|---------|---------------------------------------|--------|---------|--------------------------------|---------------|
|      | Ref. No | Part No <u>Description</u>            | Remark | Ref. No | Part No Description            | <u>Remark</u> |
| 47   | 309     | X-3337-643-1 GUIDE (RIC) ASSY, ROLLER |        | 309     | X-3371-518-1 ROLLER GUIDE ASSY |               |

#### **ELECTRICAL PARTS LIST**

| Page |   |              | FORMER                         | ·      |             |       |           |   |                    | NEW                          |                      |    |      |      |
|------|---|--------------|--------------------------------|--------|-------------|-------|-----------|---|--------------------|------------------------------|----------------------|----|------|------|
|      | <u>Ref. No</u>                                      | Part No      | Description                    |        |             | Rema  | <u>rk</u> | Ref. No   | Part No            | Description                  | <u>1</u>             |    | Rei  | mark |
| 49   | IC801   |              | DISPLAY (A) BO<br>IC CXP82316- |        |             |       |           | IC801   | **<br>8-752-869-39 | * DISPLAY (A)<br>9 IC CXP875 | BOARD **<br>532-061Q |    |      |      |
| 51   |   |              | HEADPHONE BOAR                 | -      |             |       |           |   |                    | * HEADPHONE I                |                      |    |      |      |
|      | <u>1</u> 1.00 € £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ | 1-202-857-11 | THERMISTOR, PO                 | SITIVE | 33          |       |           | <b></b> ΛR691                                     | 1-808-374-1        | 1 THERMISTOR,                | POSITIVE             | 33 |      |      |
|      | <u>^</u> R692                                       | 1-202-857-11 | THERMISTOR, PO                 | SITIVE | 33          |       |           | <u></u> 1.0 € £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ | 1-808-374-1        | 1 THERMISTOR,                | POSITIVE             | 33 |      |      |
| 56   |   | **           | MAIN BOARD **                  |        |             |       | _         |   | *                  | * MAIN BOARD                 | **                   |    |      |      |
|      | R516  | 1-249-425-11 | CARBON                         | 4. 7K  | <b>5%</b> 1 | /4W : | F         | R516  | 1-249-429-11       | 1 CARBON                     | 10K                  | 5% | 1/4W | F    |

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified. Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

# DTC-790

## SONY. SERVICE MANUAL

US Model Canadian Model AEP Model

## **SUPPLEMENT-1**

File this supplement with the service manual.

**Subject: 1. Correction** 

2. Parts changed

3. Board change

(ECN-TC500608/TC500800)

#### 1. Correction

: Indicates corrected portion

#### **PRINTED WIRING BOARD**

| RECT                       | CORREC          | INCORRECT                    | Page |
|----------------------------|-----------------|------------------------------|------|
|                            |                 | RUM DRIVE BOARD) ation: 1-18 | 26   |
| CHOT WHT  SO SILK  RED (6) | CN04 SO O O O O | POZ PHILIP RED 6 >>          |      |
| BRNQ                       | PO2 BURNESS RES | POZ LINE PRED CO.            |      |

#### **EXPLODED VIEWS**

| Page | INCORRECT  | CORRECT                            |
|------|--|------------------------------------|
|      | Ref. No Part No Description Remark   | Ref. No Part No Description Remark |
| 46   | 205 3-373-234-05 CHASSIS (L)   | 205 A-2004-153-E CHASSIS (L) ASSY  |
|      | 208  M901  203  207  207  207  207  208  And Supplied  201  202  203  204  205 | 206 M901 203 204 205               |

#### 2. PARTS CHANGED

• Revise your service manual as shown below due to parts supply classification has been changed.

| Page |         |                | CURRENT                 |               |         |              | REVISED           |        |
|------|---------|----------------|-------------------------|---------------|---------|--------------|-------------------|--------|
|      | Ref. No | <u>Part No</u> | Description             | <u>Remark</u> | Ref. No | Part No      | Description       | Remark |
| 47   | 309     | X-3337-643-1   | GUIDE (RIC) ASSY, ROLLE | CR .          | 309     | X-3371-518-1 | ROLLER GUIDE ASSY |        |

#### **ELECTRICAL PARTS LIST**

| Page |                                       |              | FORMER                                |        |              |  |                    | NEW                                   | **        |
|------|---------------------------------------|--------------|---------------------------------------|--------|--------------|--|--------------------|---------------------------------------|-----------|
|      | Ref. No                               | Part No      | Description                           | R      | <u>emark</u> | Ref. No  | Part No            | Description                           | Remark    |
| 49   | IC801                                 |              | DISPLAY (A) BOARD ** IC CXP82316-054Q |        |              | IC801  | **<br>8-752-869-39 | DISPLAY (A) BOARD ** IC CXP87532-061Q |           |
| 51   |                                       | **           | HEADPHONE BOARD **                    |        |              |  | **                 | HEADPHONE BOARD **                    |           |
|      | <u></u> 1. R691                       | 1-202-857-11 | THERMISTOR, POSITIVE                  | 33     |              | <u></u> 1. <b>1 1 1 1 1 1 1 1 1 1</b>              | 1-808-374-11       | THERMISTOR, POSITIVE                  | 33        |
|      | <u></u> 1. <b>1 1 1 1 1 1 1 1 1 1</b> | 1-202-857-11 | THERMISTOR, POSITIVE                  | 33     |              | <u>1</u> 1.0 € £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ | 1-808-374-11       | THERMISTOR, POSITIVE                  | 33        |
| 56   |                                       | **           | MAIN BOARD **                         |        |              |  | **                 | MAIN BOARD **                         |           |
|      | R516                                  | 1-249-425-11 | CARBON 4.7K                           | 5% 1/4 | W F          | R516   | 1-249-429-11       | CARBON 10K                            | 5% 1/4W F |

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.

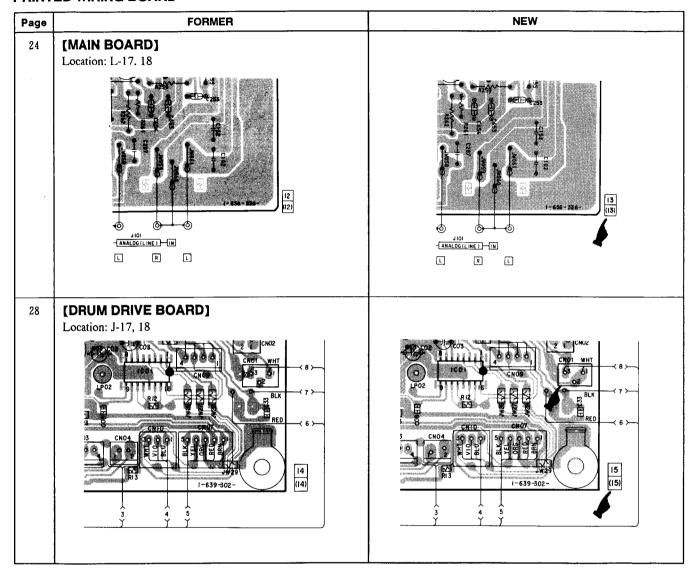
Ne les remplacer que par une piéce portant le numéro spécifié.

#### 3. BOARD CHANGE



: Changed portion

#### **PRINTED WIRING BOARD**



# DTC-790

## SERVICE MANUAL

US Model Canadian Model AEP Model

## **SUPPLEMENT-1**

File this supplement with the service manual.

Subject: 1. Correction

2. Parts changed

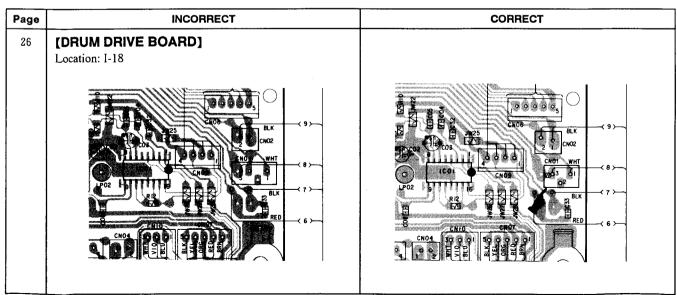
3. Board change

(ECN-TC500608/TC500800)

#### 1. Correction

: Indicates corrected portion

#### **PRINTED WIRING BOARD**



### **EXPLODED VIEWS**

| Page | INCORRECT                              | CORRECT                                     |
|------|--|---|
|      | Ref. No Part No Description Remark     | Ref. No Part No Description Remark          |
| 46   | 205 3-373-234-05 CHASSIS (L)           | 205 A-2004-153-E CHASSIS (L) ASSY           |
|      | 208  208  208  208  208  208  208  208 | 208  208  208  207  207  207  207  208  208 |

#### 2. PARTS CHANGED

• Revise your service manual as shown below due to parts supply classification has been changed.

| Page |         |              | CURRENT           |        |         |              | REVISED           |        |
|------|---------|--------------|-------------------|--------|---------|--------------|-------------------|--------|
|      | Ref. No | Part No      | Description       | Remark | Ref. No | Part No      | Description       | Remark |
| 47   | 309     | X-3337-643-1 | GUIDE (RIC) ASSY, | ROLLER | 309     | X-3371-518-1 | ROLLER GUIDE ASSY |        |

#### **ELECTRICAL PARTS LIST**

| Page |                                |                    | FORMER   |    |        |                                |                    | NEW  |        |
|------|--------------------------------|--------------------|--|----|--------|--------------------------------|--------------------|--|--------|
|      | Ref. No                        | <u>Part No</u>     | <u>Description</u>   |    | Remark | <u>Ref. No</u>                 | Part No            | Description  | Remark |
| 49   | IC801                          | **<br>8-752-863-91 | DISPLAY (A) BOARD * IC CXP82316-054Q                       | *  |        | IC801                          | **<br>8-752-869-39 | DISPLAY (A) BOARD ** IC CXP87532-061Q                              |        |
| 51   | <u>↑</u> R691<br><u>↑</u> R692 | 1-202-857-11       | HEADPHONE BOARD ** THERMISTOR, POSITIV THERMISTOR, POSITIV |    |        | <u>^</u> R691<br><u>^</u> R692 | 1-808-374-11       | HEADPHONE BOARD ** THERMISTOR, POSITIVE 33 THERMISTOR, POSITIVE 33 |        |
| 56   | R516                           | **<br>1-249-425-11 | MAIN BOARD ** CARBON 4.7K                                  | 5% | 1/4W F | R516                           | **<br>1-249-429-11 | MAIN BOARD ** CARBON 10K 5%  | 1/4W F |

The components identified by mark  $\hat{\Lambda}$  or dotted line with mark  $\hat{\Lambda}$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  $\hat{\Lambda}$  sont critiques pour la sécurité.

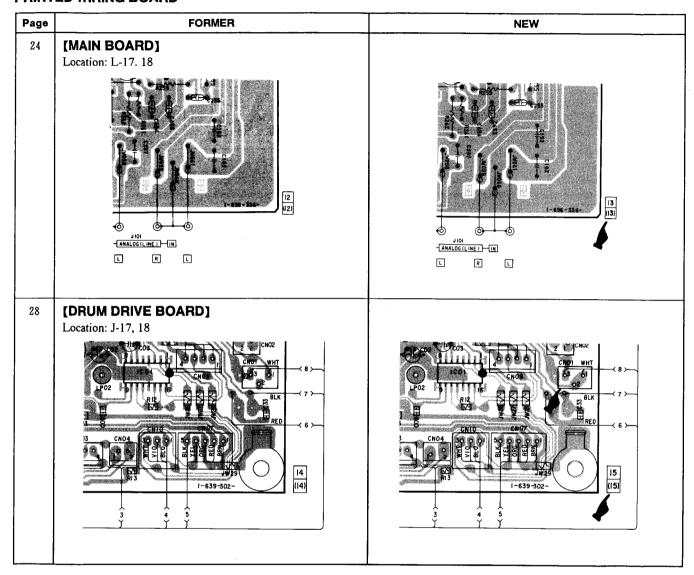
Ne les remplacer que par une piéce portant le numéro spécifié.

#### 3. BOARD CHANGE



: Changed portion

#### **PRINTED WIRING BOARD**



# DTC-790

## SERVICE MANUAL

US Model Canadian Model AEP Model

## **SUPPLEMENT-1**

File this supplement with the service manual.

**Subject: 1. Correction** 

2. Parts changed

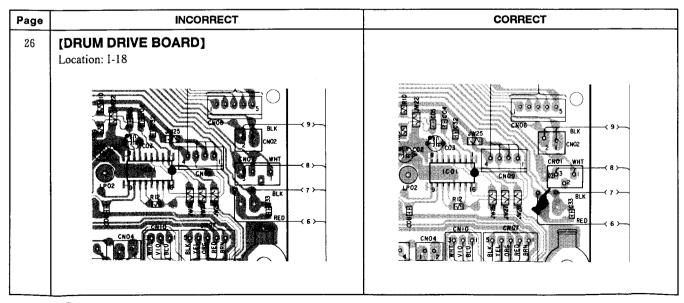
3. Board change

(ECN-TC500608/TC500800)

#### 1. Correction

: Indicates corrected portion

#### **PRINTED WIRING BOARD**



#### **EXPLODED VIEWS**

| Page | INCORRECT                    |               |         |             | CORRECT            | 71,71           |
|------|------------------------------|---------------|---------|-------------|--------------------|-----------------|
|      | Ref. No Part No Description  | <u>Remark</u> | Ref. No | Part No     | Description        | Remark          |
| 46   | 205 3-373-234-05 CHASSIS (L) |               | 205     | A-2004-153- | E CHASSIS (L) ASSY |                 |
|      | 203 204 202 203 204          | 205           | 203     | 206         | M901               | at supplied 205 |

#### 2. PARTS CHANGED

• Revise your service manual as shown below due to parts supply classification has been changed.

| Page |         |                | CURRENT              |        |         |              | REVISED          |        |
|------|---------|----------------|----------------------|--------|---------|--------------|------------------|--------|
|      | Ref. No | <u>Part No</u> | Description          | Remark | Ref. No | Part No      | Description      | Remark |
| 47   | 309     | X-3337-643-1   | GUIDE (RIC) ASSY, RO | LLER   | 309     | X-3371-518-1 | ROLLER GUIDE ASS | Y      |

#### **ELECTRICAL PARTS LIST**

| Page |         |                    | FORMER  |        |          |       |         |                    | NEW                          |          |    | ,    |      |
|------|---------|--------------------|---|--------|----------|-------|---------|--------------------|------------------------------|----------|----|------|------|
|      | Ref. No | <u>Part No</u>     | Description   |        | <u>R</u> | emark | Ref. No | Part No            | Description                  |          |    | Rer  | mark |
| 49   | IC801   |                    | DISPLAY (A) BOAR<br>IC CXP82316-05                      |        |          |       | IC801   | **<br>8-752-869-39 | DISPLAY (A) E<br>IC CXP87532 |          |    |      |      |
| 51   |         | 1-202-857-11       | HEADPHONE BOARD<br>THERMISTOR, POSI<br>THERMISTOR, POSI | TIVE : |          |       |         | 1-808-374-11       | HEADPHONE BOATHERMISTOR, F   | OSITIVE  |    |      |      |
| 56   | R516    | **<br>1-249-425-11 | MAIN BOARD ** CARBON 4                                  | . 7K ! | 5% 1/4   | W F   | R516    | **<br>1-249-429-11 | MAIN BOARD ** CARBON         | ⊧<br>10K | 5% | 1/4W | F    |

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

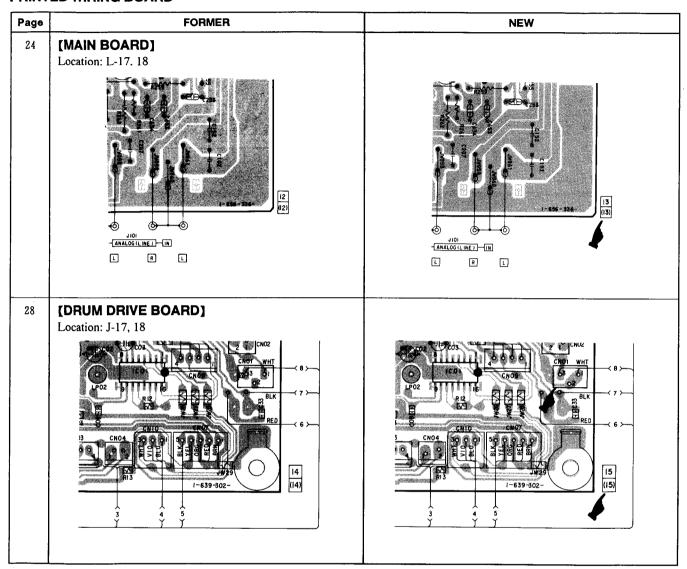
Replace only with part number specified. Les composants identifiés par une marque 🛆 sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

### 3. BOARD CHANGE



: Changed portion

#### **PRINTED WIRING BOARD**



#### 3. BOARD CHANGE



: Changed portion

#### **PRINTED WIRING BOARD**

